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```

[illegible]

```
0001 0 MODULE setact (
0002 0 IDENT = 'V04-000',
0003 0 ADDRESSING_MODE(EXTERNAL=GENERAL,
0004 0 NONEXTERNAL=LONG_RELATIVE)
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1 ++
0034 1 FACILITY: Set
0035 1
0036 1 ABSTRACT:
0037 1
0038 1 This module contains the action routines for SET FILE, SET DIRECTORY,
0039 1 and SET VOLUME.
0040 1
0041 1 ENVIRONMENT:
0042 1
0043 1 Vax native, privileged user mode
0044 1
0045 1 --
0046 1
0047 1 AUTHOR: Gerry Smith CREATION DATE: 04-Aug-1981
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1 V03-005 GAS0047 Gerry Smith 15-Feb-1982
0052 1 Only get the file name for SET FILE/ENTER=filename.
0053 1 The $PARSE is moved to SETFILE, so that stickiness
0054 1 can be applied with the input file.
0055 1
0056 1 V03-004 GAS0038 Gerry Smith 2-Feb-1982
0057 1 Add /GLOBAL_BUFFERS action routine for SET FILE.
```

SETACT
V04-000

K 1
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETACT.B32;1

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.. 58 0058 1 !
.. 59 0059 1 !
.. 60 0060 1 !
.. 61 0061 1 !
.. 62 0062 1 !
.. 63 0063 1 !
.. 64 0064 1 !
.. 65 0065 1 !
.. 66 0066 1 !
.. 67 0067 1 !
.. 68 0068 1 !
.. 69 0069 1 !**

V03-003 GAS0030 Gerry Smith 1-Jan-1982
Add /RETENTION action routine, for SET VOLUME.
V03-002 GAS0026 Gerry Smith 18-Dec-1981
Use shared message file, and lower fatal messages to
simple error messages.
V03-001 GAS0021 Gerry Smith 30-Nov-1981
Allow zero values for group and member of UIC

SETACT
V04-000

L¹
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[CLIUTL.SRC]SETACT.B32;1

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```
: 71      0070 1 LIBRARY 'SYSSLIBRARY:LIB';  
: 72      0071 1 LIBRARY 'SYSSLIBRARY:CLIMAC';  
: 73      0072 1 LIBRARY 'SYSSLIBRARY:TPAMAC';  
: 74      0073 1  
: 75      0074 1 STRUCTURE  
: 76      0075 1     BBLOCK [O, P, S, E; N] =  
: 77      0076 1         [N]  
: 78      0077 1         (BBLOCK + O)<P,S,E>;
```

```
80 0078 1 FORWARD ROUTINE
81 0079 1
82 0080 1     acc_act,
83 0081 1     back_act,
84 0082 1     noback_act,
85 0083 1     data_act,
86 0084 1     enter_act,
87 0085 1     erase_act,
88 0086 1     noerase_act,
89 0087 1     exp_act,
90 0088 1     noexp_act,
91 0089 1     ext_act,
92 0090 1     fprot_act,
93 0091 1     gbuf_act,
94 0092 1     journal_act,
95 0093 1     label_act,
96 0094 1     owner_act,
97 0095 1     retent_act,
98 0096 1     test_char,
99 0097 1     user_act,
100 0098 1     vprot_act,
101 0099 1     vrsn_act,
102 0100 1     window_act;
103 0101 1
104 0102 1 EXTERNAL ROUTINE
105 0103 1     calculate_max,
106 0104 1     sys$fa0,
107 0105 1     lib$tparse,
108 0106 1     lib$cv_ttime,
109 0107 1     lib$cv_tdtm,
110 0108 1     lib$cv_tdtb;
111 0109 1
112 0110 1
113 0111 1 External data references
114 0112 1
115 0113 1 EXTERNAL
116 0114 1     rename_buf : VECTOR[nam$e_maxrss, BYTE],      ! Name buffer for /ENTER
117 0115 1     file_name : VECTOR[2],                      ! File name descriptor
118 0116 1     file_rlf : BBLOCK[nam$e_bln],                ! Related name block
119 0117 1
120 0118 1     set$l_status,                                ! Status return for SET dispatcher
121 0119 1     set$a_cliwork;                                ! CLI work area in SET dispatcher
122 0120 1
123 0121 1
124 0122 1 Literal data definitions
125 0123 1
126 0124 1 LITERAL
127 0125 1     true = 1;
128 0126 1     false = 0;
129 0127 1
```

```
! Action routines for:
! /ACCESSED (VOLUME)
! /BACKUP (FILE)
! /NOBACKUP (FILE)
! /DATA CHECK (VOLUME, FILE)
! /ENTER (FILE)
! /ERASE ON DELETE (FILE)
! /NOERASE ON DELETE (FILE)
! /EXPIRATION DATE (FILE)
! /NOEXPIRATION DATE (FILE)
! /EXTENSION (FILE, VOLUME)
! /FILE PROTECTION (VOLUME)
! /GLOBAL BUFFERS (FILE)
! /JOURNAL (FILE)
! /LABEL (VOLUME)
! /OWNER UIC (ALL)
! /RETENTION (VOLUME)
! action routine used by retent_act
! /USER NAME (VOLUME)
! /PROTECTION (VOLUME)
! /VERSION LIMIT (DIRECTORY, FILE)
! /WINDOWS (VOLUME)
```

```
131 0128 1 | Define the qualifier flag bits used by all SET FILE/DIRECTORY/VOLUME
132 0129 1 |
133 0130 1 |
134 0131 1 | GLOBAL LITERAL
135 P 0132 1 | SEQUALST
136 PP 0133 1 | (QUAL_...1,1,
137 PP 0134 1 | (access,).
138 PP 0135 1 | (backup,).
139 PP 0136 1 | (nobackup,).
140 PP 0137 1 | (confirm,).
141 P 0138 1 | (data,).
142 P 0139 1 | (enter,).
143 P 0140 1 | (eof,).
144 P 0141 1 | (erase,).
145 P 0142 1 | (noerase,).
146 P 0143 1 | (expi,).
147 P 0144 1 | (exte,).
148 P 0145 1 | (fprot,).
149 P 0146 1 | (gbuf,).
150 P 0147 1 | (journal,).
151 P 0148 1 | (label,).
152 PP 0149 1 | (log,).
153 PP 0150 1 | (nodi,).
154 PP 0151 1 | (owner,).
155 PP 0152 1 | (parent,).
156 P 0153 1 | (remove,).
157 P 0154 1 | (retent,).
158 P 0155 1 | (rprot,).
159 PP 0156 1 | (trunc,).
160 PP 0157 1 | (username,).
161 PP 0158 1 | (vprot,).
162 P 0159 1 | (vrsn,).
163 0160 1 | (windows,));
164 0161 1 |
165 0162 1 | Define the DATA_CHECK option bits
166 0163 1 |
167 0164 1 | GLOBAL LITERAL
168 P 0165 1 | SEQUALST
169 PP 0166 1 | (DATA_...1,1,
170 PP 0167 1 | (read,).
171 PP 0168 1 | (nored,).
172 P 0169 1 | (write,).
173 P 0170 1 | (nowrite,));
174 0171 1 |
175 0172 1 | Define the JOURNAL option bits
176 0173 1 |
177 0174 1 | GLOBAL LITERAL
178 P 0175 1 | SEQUALST
179 PP 0176 1 | (JRNL_...1,1,
180 PP 0177 1 | (ai,).
181 PP 0178 1 | (noai,).
182 PP 0179 1 | (at,).
183 PP 0180 1 | (noat,).
184 P 0181 1 | (bi,).
185 P 0182 1 | (nobi,).
186 P 0183 1 | (ru,).
187 0184 1 |
```

ACCESSED	(VOLUME)
BACKUP	(FILE)
NOBACKUP	(FILE)
CONFIRM	(ALL)
DATA_CHECK	(FILE, VOLUME)
ENTER	(FILE)
END OF FILE	(FILE)
ERASE ON DELETE	(FILE)
NOERASE ON DELETE	(FILE)
EXPIRATION_DATE	(FILE)
EXTENSION	(FILE, VOLUME)
FILE_PROTECTION	(VOLUME)
! GLOBAL_BUFFERS	(FILE)
JOURNAL	(FILE)
LABEL	(VOLUME)
LOG	(ALL)
NODIRECTORY	(FILE)
OWNER_UID	(ALL)
OWNER=PARENT	(FILE)
REMOVE	(FILE)
RETENTION	(VOLUME)
RECORD PROTECTION	(FILE, VOLUME)
TRUNCATE	(FILE)
USERNAME	(VOLUME)
PROTECTION	(VOLUME)
VERSION_LIMIT	(FILE, DIRECTORY)
WINDOWS	(VOLUME)

SETACT
V04-000

8 2
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

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[CLIUTL.SRC]SETACT.B32;1

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:	188	P	0185	1	(noru,).
:	189	P	0186	1	(rum,).
:	190		0187	1	(norum,));
:	191		0188	1	
:	192		0189	1	


```
.. 194      0190 1  |
.. 195      0191 1  | Declare external references
.. 196      0192 1  |
.. 197      0193 1  | EXTERNAL
.. 198      0194 1  |   setfile$flags : BITVECTOR[32],           | Qualifier flags
.. 199      0195 1  |   setfile$dflags : BITVECTOR[32],          | Data check flag word
.. 200      0196 1  |   setfile$jflags : BITVECTOR[32],          | Journal flag word
.. 201      0197 1  |   acc_value,                                | LRU value
.. 202      0198 1  |   exp_value : BBLOCK[8],                   | Expiration date
.. 203      0199 1  |   exte_value,                               | Extension quantity
.. 204      0200 1  |   fprot_value,                             | File protection value
.. 205      0201 1  |   gbuf_value,                              | Global buffer count
.. 206      0202 1  |   label_value : VECTOR[2],                 | Volume label descriptor
.. 207      0203 1  |   uic_value,                               | Owner uic
.. 208      0204 1  |   group,                                   | Group number
.. 209      0205 1  |   member,                                 | Member number
.. 210      0206 1  |   user_value : VECTOR[2],                 | Username string descriptor
.. 211      0207 1  |   retmin_value : VECTOR[2],               | Minimum retention time quadword
.. 212      0208 1  |   retmax_value : VECTOR[2],               | Maximum retention time quadword
.. 213      0209 1  |   vprot_value,                            | Volume protection value
.. 214      0210 1  |   vrsn_value,                             | Version limit
.. 215      0211 1  |   window_value;                           | Window length
.. 216      0212 1  |
.. 217      0213 1  |
.. 218      0214 1  | |
.. 219      0215 1  | | Declare the error messages
.. 220      0216 1  | |
.. 221      0217 1  | | EXTERNAL LITERAL
.. 222      0218 1  | |   set$_facility,                         | SET facility code
.. 223      0219 1  | |   set$_operreq,                         | OPER privilege required
.. 224      0220 1  | |   set$_writeerr;                       | Error accessing file
```

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```
236      0230 1 | TPARSE table for /DATA_CHECK options
237      0231 1 |
238      0232 1 |
239      0233 1 $INIT_STATE (dc_state,dc_keys);
240      0234 1 |
241      P 0235 1 $STATE (optstart,
242      P 0236 1 (tpa$_eos, tpa$_exit, ,data_write, setfile$dflags), | default is WRITE
243      0237 1 (tpa$_lambda, getoption)); | fall thru to options
244      0238 1 |
245      P 0239 1 $STATE (getoption,
246      P 0240 1 ('READ', , ,1^data_read, setfile$dflags), | READ present
247      P 0241 1 ('WRITE', , ,1^data_write, setfile$dflags), | WRITE present
248      P 0242 1 ('NOREAD', , ,1^data_noread, setfile$dflags), | NOREAD present
249      0243 1 ('NOWRITE', , ,1^data_nowrite, setfile$dflags)); | NOWRITE present
250      0244 1 |
251      P 0245 1 $STATE (,
252      P 0246 1 (tpa$_eos, tpa$_exit), | either end of line
253      0247 1 ('', , getoption)); | or get rid of the comma
254      0248 1 |
```

```
.. 256      0249 1 | TPARSE table for /OWNER_UIC option
.. 257      0250 1 |
.. 258      0251 1 |
.. 259      0252 1 | $INIT_STATE (owner_state,owner_keys);
.. 260      0253 1 |
.. 261      P 0254 1 | $STATE (ownerstart,
.. 262      P 0255 1 | ('PARENT',tpa$_exit,,1^qual_parent,setfile$flags), ! Check for PARENT
.. 263      P 0256 1 | ('['), ! Look for square bracket
.. 264      0257 1 | ('<')); ! Or a squiggle
.. 265      0258 1 |
.. 266      P 0259 1 | $STATE (
.. 267      0260 1 | (tpa$_octal,...,group)); ! Get group number
.. 268      0261 1 |
.. 269      P 0262 1 | $STATE (
.. 270      0263 1 | (',')); ! Get rid of the comma
.. 271      0264 1 |
.. 272      P 0265 1 | $STATE (
.. 273      0266 1 | (tpa$_octal,...,member)); ! Get member number
.. 274      0267 1 |
.. 275      P 0268 1 | $STATE (
.. 276      P 0269 1 | (']'), ! Get end bracket
.. 277      0270 1 | ('>'));
.. 278      0271 1 |
.. 279      P 0272 1 | $STATE (
.. 280      0273 1 | (tpa$_eos,tpa$_exit)); ! Clean-up
```



```
282 0274 1 | TPARSE table for /JOURNAL option
283 0275 1 |
284 0276 1 |
285 0277 1 $INIT_STATE (journal_state, journal_keys);
286 0278 1 |
287 P 0279 1 $STATE (getjopts,
288 P 0280 1 ('AI'...1^jrnل_ail,setfile$iflags), | AI journaling
289 P 0281 1 ('AT'...1^jrnل_at,setfile$iflags), | AT journaling
290 P 0282 1 ('BI'...1^jrnل_bi,setfile$iflags), | BI journaling
291 P 0283 1 ('NOAI'...1^jrnل_noail,setfile$iflags), | No AI journaling
292 P 0284 1 ('NOAT'...1^jrnل_noat,setfile$iflags), | No AT journaling
293 P 0285 1 ('NOBI'...1^jrnل_nobi,setfile$iflags), | No BI journaling
294 P 0286 1 ('NORU'...1^jrnل_noru,setfile$iflags), | No RU journaling
295 P 0287 1 ('NORUM'...1^jrnل_norum,setfile$iflags), | No RUM journaling
296 P 0288 1 ('RU'...1^jrnل_ru,setfile$iflags), | RU journaling
297 0289 1 ('RUM'...1^jrnل_rum,setfile$iflags)); | RUM journaling
298 0290 1 |
299 P 0291 1 $STATE (,
300 P 0292 1 (tpa$_eos,tpa$_exit), | Either the end
301 0293 1 ('.',getjopts)); | Or more to come
```

```
303      0294 1  |
304      0295 1  | TPARSE table for protection
305      0296 1  |
306      0297 1  |
307      0298 1  | $INIT_STATE (pro_state, pro_keys);
308      0299 1  |
309      P 0300 1  | $STATE (NEXTPRO,
310      PP 0301 1  | ('SYSTEM', SYPR,, 'X'000F0000', fprot_value),
311      PP 0302 1  | ('OWNER', OWPR,, 'X'00F00000', fprot_value),
312      PP 0303 1  | ('GROUP', GRPR,, 'X'0F000000', fprot_value),
313      P 0304 1  | ('WORLD', WOPR,, 'X'F0000000', fprot_value)
314      0305 1  | );
315      0306 1  |
316      P 0307 1  | $STATE (SYPR,
317      PP 0308 1  | (':'),
318      PP 0309 1  | ('='),
319      P 0310 1  | (TPAS_LAMBDA, ENDPRO)
320      0311 1  | );
321      0312 1  |
322      P 0313 1  | $STATE (SYPRO,
323      PP 0314 1  | ('R', SYPRO,, 'X'0001', fprot_value),
324      PP 0315 1  | ('W', SYPRO,, 'X'0002', fprot_value),
325      PP 0316 1  | ('E', SYPRO,, 'X'0004', fprot_value),
326      PP 0317 1  | ('P', SYPRO,, 'X'0004', fprot_value),
327      PP 0318 1  | ('D', SYPRO,, 'X'0008', fprot_value),
328      P 0319 1  | ('L', SYPRO,, 'X'0008', fprot_value),
329      0320 1  | (TPAS_LAMBDA, ENDPRO)
330      0321 1  | );
331      0322 1  |
332      P 0323 1  | $STATE (OWPR,
333      PP 0324 1  | (':'),
334      PP 0325 1  | ('='),
335      P 0326 1  | (TPAS_LAMBDA, ENDPRO)
336      0327 1  | );
337      0328 1  |
338      P 0329 1  | $STATE (OWPRO,
339      PP 0330 1  | ('R', OWPRO,, 'X'0010', fprot_value),
340      PP 0331 1  | ('W', OWPRO,, 'X'0020', fprot_value),
341      PP 0332 1  | ('E', OWPRO,, 'X'0040', fprot_value),
342      PP 0333 1  | ('P', OWPRO,, 'X'0040', fprot_value),
343      PP 0334 1  | ('D', OWPRO,, 'X'0080', fprot_value),
344      P 0335 1  | ('L', OWPRO,, 'X'0080', fprot_value),
345      0336 1  | (TPAS_LAMBDA, ENDPRO)
346      0337 1  | );
347      0338 1  |
348      P 0339 1  | $STATE (GRPR,
349      PP 0340 1  | (':'),
350      PP 0341 1  | ('='),
351      P 0342 1  | (TPAS_LAMBDA, ENDPRO)
352      0343 1  | );
353      0344 1  |
354      P 0345 1  | $STATE (GRPRO,
355      PP 0346 1  | ('R', GRPRO,, 'X'0100', fprot_value),
356      PP 0347 1  | ('W', GRPRO,, 'X'0200', fprot_value),
357      PP 0348 1  | ('E', GRPRO,, 'X'0400', fprot_value),
358      P 0349 1  | ('P', GRPRO,, 'X'0400', fprot_value),
359      P 0350 1  | ('D', GRPRO,, 'X'0800', fprot_value),
```

```

360      P 0351 1      ('L' GRPRO, ZX'0800', fprot_value),
361      P 0352 1      (TPAS_LAMBDA, ENDPRO)
362      P 0353 1      );
363      P 0354 1
364      P 0355 1 $STATE (WOPR,
365      P 0356 1      (':'),
366      P 0357 1      ('='),
367      P 0358 1      (TPAS_LAMBDA, ENDPRO)
368      P 0359 1      );
369      P 0360 1
370      P 0361 1 $STATE (WOPR,
371      P 0362 1      ('R' WOPR, ZX'1000', fprot_value),
372      P 0363 1      ('W' WOPR, ZX'2000', fprot_value),
373      P 0364 1      ('E' WOPR, ZX'4000', fprot_value),
374      P 0365 1      ('P' WOPR, ZX'4000', fprot_value),
375      P 0366 1      ('D' WOPR, ZX'8000', fprot_value),
376      P 0367 1      ('L' WOPR, ZX'8000', fprot_value),
377      P 0368 1      (TPAS_LAMBDA, ENDPRO)
378      P 0369 1      );
379      P 0370 1
380      P 0371 1 $STATE (ENDPRO,
381      P 0372 1      ('' NEXTPRO)
382      P 0373 1      (TPAS_EOS, TPAS_EXIT)
383      P 0374 1      );

```

```
.. 385      0375 1 | |
.. 386      0376 1 | | Tparse table for /RETENTION option
.. 387      0377 1 | |
.. 388      0378 1 | $INIT_STATE (ret_state, ret_keys)
.. 389      0379 1 |
.. 390      P 0380 1 | $STATE (retstart,
.. 391      0381 1 | ((get_delta),...,retmin_value));      ! Get the first delta string
.. 392      0382 1 |
.. 393      P 0383 1 | $STATE (
.. 394      0384 1 | (','),
.. 395      0385 1 | (tpa$_eos, tpa$_exit));      ! If a comma, get next string
.. 396      0386 1 |                               ! Else exit
.. 397      P 0387 1 | $STATE (
.. 398      0388 1 | ((get_delta),...,retmax_value));      ! Get the next delta string
.. 399      0389 1 |
.. 400      P 0390 1 | $STATE (
.. 401      0391 1 | (tpa$_eos, tpa$_exit));      ! And exit
.. 402      0392 1 |
.. 403      P 0393 1 | $STATE (get_delta,
.. 404      P 0394 1 | (tpa$_any, get_delta, test_char),      ! Get next character in delta string
.. 405      0395 1 | (tpa$_lambda, tpa$_exit));
```



```
0396 1 GLOBAL ROUTINE acc_act (option_block, callback) =
0397 ++
0398
0399 | This is the action routine for the /ACCESSED qualifier. It first checks to
0400 | make sure that the process has OPER privilege. If so, then the ACCESS value
0401 | is obtained and bounds checking is performed on it.
0402 |
0403 |--
0404 BEGIN
0405
0406 OWN privs : BBLOCK[8];          ! Place to store the process privileges
0407
0408 LOCAL
0409     status,                      ! Status return
0410     desc : BBLOCK[dsc$c_s_bln]; ! General descriptor
0411
0412 MAP option_block : REF BBLOCK; ! Define the CLI block
0413
0414 |
0415 | Call $SETPRV to get the current privileges of the process. If the process
0416 | does not have OPER, then signal an error and stop.
0417
0418 IF NOT (status = $SETPRV(ENBFLG = 1,          ! Enable
0419                         PRVADR = 0,          ! No new privileges
0420                         PRMFLG = 1,          ! Get current privileges
0421                         PRVPRV = privs))
0422 THEN SIGNAL_STOP(.status);
0423
0424 IF NOT .privs[prv$v_oper] THEN SIGNAL_STOP(set$_operreq);
0425
0426 |
0427 | The process has the correct privilege, so go ahead and get the value
0428 |
0429
0430 acc_value = 3;                  ! Set up the default
0431
0432 |
0433 | If a value was specified, use it; otherwise, use the default.
0434
0435 IF .option_block[cli$w_qdvalsiz] EQL 0
0436 THEN RETURN true;
0437
0438 |
0439 | Convert the value
0440
0441 IF NOT (status = LIB$CVT_DTB(.option_block[cli$w_qdvalsiz],
0442                             .option_block[cli$a_qdvaladr],
0443                             acc_value))
0444 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_error, ! Signal a syntax error
0445                 1,
0446                 option_block[cli$q_qdvaldesc],
0447                 .status)
0448 ELSE
0449 BEGIN
0450     IF NOT (.acc_value GEQ 0          ! Check that value is in range
0451             AND
0452             .acc_value LEQ 255)
0453
```

SETACT
V04-000

L 2
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETACT.B32;1

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(12)

```

: 464      0453      3      THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,      ! If not, exit with an error.
: 465      0454      3      |
: 466      0455      3      |
: 467      0456      3      |
: 468      0457      3      |
: 469      0458      3      |
: 470      0459      1      END;
                                RETURN true;
                                END;
```

```

                                .TITLE SETACT
                                .IDENT \V04-000\
                                .PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1

                                00000 :TPASKEYSTO
                                U.9: .BLKB 0
                                44 41 45 52 00000 :TPASKEYST
                                U.11: .ASCII \READ\
                                FF 00004 .BYTE -1
                                00005 :TPASKEYSTO
                                U.15: .BLKB 0
                                45 54 49 52 57 00005 :TPASKEYST
                                U.17: .ASCII \WRITE\
                                FF 0000A .BYTE -1
                                0000B :TPASKEYSTO
                                U.21: .BLKB 0
                                44 41 45 52 4F 4E 0000B :TPASKEYST
                                U.23: .ASCII \NOREAD\
                                FF 00011 .BYTE -1
                                00012 :TPASKEYSTO
                                U.27: .BLKB 0
                                45 54 49 52 57 4F 4E 00012 :TPASKEYST
                                U.29: .ASCII \NOWRITE\
                                FF 00019 .BYTE -1
                                FF 0001A :TPASKEYFILL
                                U.33: .BYTE -1
                                0001B :TPASKEYSTO
                                U.39: .BLKB 0
                                54 4E 45 52 41 50 0001B :TPASKEYST
                                U.41: .ASCII \PARENT\
                                FF 00021 .BYTE -1
                                FF 00022 :TPASKEYFILL
                                U.48: .BYTE -1
                                00023 :TPASKEYSTO
                                U.59: .BLKB 0
                                49 41 00023 :TPASKEYST
                                U.61: .ASCII \AI\
                                FF 00025 .BYTE -1
                                00026 :TPASKEYSTO
                                U.65: .BLKB 0
                                54 41 00026 :TPASKEYST
                                U.67: .ASCII \AT\
                                FF 00028 .BYTE -1
                                00029 :TPASKEYSTO
                                U.71: .BLKB 0
                                49 42 00029 :TPASKEYST
                                U.73: .ASCII \BI\
```

				FF	0002B				TPASKEYSTO	BYTE	-1	
					0002C				U.77:	BLKB	0	
49	41	4F	4E		0002C				U.79:	ASCII	\NOAI\	
				FF	00030					BYTE	-1	
					00031				U.83:	BLKB	0	
54	41	4F	4E		00031				U.85:	ASCII	\NOAT\	
				FF	00035					BYTE	-1	
					00036				U.89:	BLKB	0	
49	42	4F	4E		00036				U.91:	ASCII	\NOBI\	
				FF	0003A					BYTE	-1	
					0003B				U.95:	BLKB	0	
55	52	4F	4E		0003B				U.97:	ASCII	\NORU\	
				FF	0003F					BYTE	-1	
					00040				U.101:	BLKB	0	
4D	55	52	4F	4E	00040				U.103:	ASCII	\NORUM\	
				FF	00045					BYTE	-1	
					00046				U.107:	BLKB	0	
			55	52	00046				U.109:	ASCII	\RU\	
				FF	00048					BYTE	-1	
					00049				U.113:	BLKB	0	
			4D	55	52	00049			U.115:	ASCII	\RUM\	
				FF	0004C					BYTE	-1	
				FF	0004D				U.119:	BYTE	-1	
					0004E				U.125:	BLKB	0	
4D	45	54	53	59	53	0004E			U.127:	ASCII	\SYSTEM\	
				FF	00054					BYTE	-1	
					00055				U.133:	BLKB	0	
52	45	4E	57	4F	00055				U.135:	ASCII	\OWNER\	
				FF	0005A					BYTE	-1	
					0005B				U.141:	BLKB	0	
50	55	4F	52	47	0005B				U.143:	ASCII	\GROUP\	
				FF	00060					BYTE	-1	
					00061				U.149:	BLKB	0	
44	4C	52	4F	57	00061				U.151:	ASCII	\WORLD\	

```
FF 00066 .BYTE -1
FF 00067 :TPASKEYFILL
U.157: .BYTE -1

.PSECT _LIB$STATES,NOWRT, SHR, PIC,1

00000 DC_STATE::
00000 OPTSTART: .BLKB 0
71F7 00000 :TPASTYPE .BLKB 0
00000000* 00002 U.2: .WORD 29175
00000003 00006 U.3: .LONG <<SETFILE$D_FLAGS-U.3>-4>
FFFF 0000A U.4: .LONG 3
15F6 0000C :TPASTARGET U.5: .WORD -1
0000* 0000E U.6: .WORD 5622
00010 U.8: .WORD <<U.7-U.8>-2>
6100 00010 :TPASTYPE U.7: .BLKB 0
00000000* 00012 U.12: .WORD 24832
00000002 00016 U.13: .LONG <<SETFILE$D_FLAGS-U.13>-4>
6101 0001A U.14: .LONG 2
00000000* 0001C U.18: .WORD 24833
00000008 00020 U.19: .LONG <<SETFILE$D_FLAGS-U.19>-4>
6102 00024 U.20: .LONG 8
00000000* 00026 U.24: .WORD 24834
00000004 0002A U.25: .LONG <<SETFILE$D_FLAGS-U.25>-4>
6503 0002E U.26: .LONG 4
00000000* 00030 U.30: .WORD 25859
00000010 00034 U.31: .LONG <<SETFILE$D_FLAGS-U.31>-4>
11F7 00038 U.32: .LONG 16
FFFF 0003A U.34: .WORD 4599
142C 0003C U.35: .WORD -1
0000* 0003E U.36: .WORD 5164
00040 OWNER_STATE:: U.37: .WORD <<U.7-U.37>-2>
```


	00040	OWNERSTART:	BLKB	0	
			BLKB	0	
7100	00040	:TPASTYPE			
		U.42:	WORD	28928	:
00000000*	00042	:TPASADDR			:
		U.43:	LONG	<<SETFILES\$FLAGS-U.43>-4>	:
00080000	00046	:TPASMASK			:
		U.44:	LONG	524288	:
FFFF	0004A	:TPASTARGET			:
		U.45:	WORD	-1	:
005B	0004C	:TPASTYPE			:
		U.46:	WORD	91	:
043C	0004E	:TPASTYPE			:
		U.47:	WORD	1084	:
45F4	00050	:TPASTYPE			:
		U.49:	WORD	17908	:
00000000*	00052	:TPASADDR			:
		U.50:	LONG	<<GROUP-U.50>-4>	:
042C	00056	:TPASTYPE			:
		U.51:	WORD	1068	:
45F4	00058	:TPASTYPE			:
		U.52:	WORD	17908	:
00000000*	0005A	:TPASADDR			:
		U.53:	LONG	<<MEMBER-U.53>-4>	:
005D	0005E	:TPASTYPE			:
		U.54:	WORD	93	:
043E	00060	:TPASTYPE			:
		U.55:	WORD	1086	:
15F7	00062	:TPASTYPE			:
		U.56:	WORD	5623	:
FFFF	00064	:TPASTARGET			:
		U.57:	WORD	-1	:
	00066	:BLKB		2	:
	00068	JOURNAL_STATE::			:
		:BLKB		0	:
	00068	GETJOPTS:			:
		:BLKB		0	:
6100	00068	:TPASTYPE			:
		U.62:	WORD	24832	:
00000000*	0006A	:TPASADDR			:
		U.63:	LONG	<<SETFILES\$JFLAGS-U.63>-4>	:
00000002	0006E	:TPASMASK			:
		U.64:	LONG	2	:
6101	00072	:TPASTYPE			:
		U.68:	WORD	24833	:
00000000*	00074	:TPASADDR			:
		U.69:	LONG	<<SETFILES\$JFLAGS-U.69>-4>	:
00000008	00078	:TPASMASK			:
		U.70:	LONG	8	:
6102	0007C	:TPASTYPE			:
		U.74:	WORD	24834	:
00000000*	0007E	:TPASADDR			:
		U.75:	LONG	<<SETFILES\$JFLAGS-U.75>-4>	:
00000020	00082	:TPASMASK			:
		U.76:	LONG	32	:
6103	00086	:TPASTYPE			:

00000000*	00088	U.80: WORD	24835	:
		:TPASADDR		
00000004	0008C	U.81: LONG	<<SETFILESJFLAGS-U.81>-4>	:
		:TPASMASK		
6104	00090	U.82: LONG	4	:
		:TPASTYPE		
00000000*	00092	U.86: WORD	24836	:
		:TPASADDR		
00000010	00096	U.87: LONG	<<SETFILESJFLAGS-U.87>-4>	:
		:TPASMASK		
6105	0009A	U.88: LONG	16	:
		:TPASTYPE		
00000000*	0009C	U.92: WORD	24837	:
		:TPASADDR		
00000040	000A0	U.93: LONG	<<SETFILESJFLAGS-U.93>-4>	:
		:TPASMASK		
6106	000A4	U.94: LONG	64	:
		:TPASTYPE		
00000000*	000A6	U.98: WORD	24838	:
		:TPASADDR		
00000100	000AA	U.99: LONG	<<SETFILESJFLAGS-U.99>-4>	:
		:TPASMASK		
6107	000AE	U.100: LONG	256	:
		:TPASTYPE		
00000000*	000B0	U.104: WORD	24839	:
		:TPASADDR		
00000400	000B4	U.105: LONG	<<SETFILESJFLAGS-U.105>-4>	:
		:TPASMASK		
6108	000B8	U.106: LONG	1024	:
		:TPASTYPE		
00000000*	000BA	U.110: WORD	24840	:
		:TPASADDR		
00000080	000BE	U.111: LONG	<<SETFILESJFLAGS-U.111>-4>	:
		:TPASMASK		
6509	000C2	U.112: LONG	128	:
		:TPASTYPE		
00000000*	000C4	U.116: WORD	25865	:
		:TPASADDR		
00000200	000C8	U.117: LONG	<<SETFILESJFLAGS-U.117>-4>	:
		:TPASMASK		
11F7	000CC	U.118: LONG	512	:
		:TPASTYPE		
FFFF	000CE	U.120: WORD	4599	:
		:TPASTARGET		
142C	000D0	U.121: WORD	-1	:
		:TPASTYPE		
0000*	000D2	U.122: WORD	5164	:
		:TPASTARGET		
		U.123: WORD	<<GETJOPTS-U.123>-2>	:
	000D4	PRO_STATE::		
		:BLKB	0	
	000D4	NEXTPRO::BLKB	0	
7100	000D4	:TPASTYPE		
		U.128: WORD	28928	:
00000000*	000D6	:TPASADDR		
		U.129: LONG	<<FPROT_VALUE-U.129>-4>	:
000F0000	000DA	:TPASMASK		

0000*	000DE	U.130: .LONG	983040	:
		:TPASTARGET		:
7101	000E0	U.132: .WORD	<<U.131-U.132>-2>	:
		:TPASTYPE		:
00000000*	000E2	U.136: .WORD	28929	:
		:TPASADDR		:
00F00000	000E6	U.137: .LONG	<<FPROT_VALUE-U.137>-4>	:
		:TPASMASK		:
0000*	000EA	U.138: .LONG	15728640	:
		:TPASTARGET		:
7102	000EC	U.140: .WORD	<<U.139-U.140>-2>	:
		:TPASTYPE		:
00000000*	000EE	U.144: .WORD	28930	:
		:TPASADDR		:
0F000000	000F2	U.145: .LONG	<<FPROT_VALUE-U.145>-4>	:
		:TPASMASK		:
0000*	000F6	U.146: .LONG	251658240	:
		:TPASTARGET		:
7503	000F8	U.148: .WORD	<<U.147-U.148>-2>	:
		:TPASTYPE		:
00000000*	000FA	U.152: .WORD	29955	:
		:TPASADDR		:
F0000000	000FE	U.153: .LONG	<<FPROT_VALUE-U.153>-4>	:
		:TPASMASK		:
0000*	00102	U.154: .LONG	-268435456	:
		:TPASTARGET		:
	00104	U.156: .WORD	<<U.155-U.156>-2>	:
		:SYPR		:
003A	00104	U.131: .BLKB	0	:
		:TPASTYPE		:
003D	00106	U.158: .WORD	58	:
		:TPASTYPE		:
15F6	00108	U.159: .WORD	61	:
		:TPASTYPE		:
0000*	0010A	U.160: .WORD	5622	:
		:TPASTARGET		:
	0010C	U.162: .WORD	<<U.161-U.162>-2>	:
7052	0010C	SYPRO: .BLKB	0	:
		:TPASTYPE		:
00000000*	0010E	U.163: .WORD	28754	:
		:TPASADDR		:
00000001	00112	U.164: .LONG	<<FPROT_VALUE-U.164>-4>	:
		:TPASMASK		:
0000*	00116	U.165: .LONG	1	:
		:TPASTARGET		:
7057	00118	U.166: .WORD	<<SYPRO-U.166>-2>	:
		:TPASTYPE		:
00000000*	0011A	U.167: .WORD	28759	:
		:TPASADDR		:
00000002	0011E	U.168: .LONG	<<FPROT_VALUE-U.168>-4>	:
		:TPASMASK		:
0000*	00122	U.169: .LONG	2	:
		:TPASTARGET		:
7045	00124	U.170: .WORD	<<SYPRO-U.170>-2>	:
		:TPASTYPE		:
00000000*	00126	U.171: .WORD	28741	:
		:TPASADDR		:

00000004	0012A	U.172: .LONG	<<FPROT_VALUE-U.172>-4>	:
		:TPASMASK		:
		U.173: .LONG	4	:
0000*	0012E	:TPASTARGET		:
		U.174: .WORD	<<SYPRO-U.174>-2>	:
7050	00130	:TPASTYPE		:
		U.175: .WORD	28752	:
00000000*	00132	:TPASADDR		:
		U.176: .LONG	<<FPROT_VALUE-U.176>-4>	:
00000004	00136	:TPASMASK		:
		U.177: .LONG	4	:
0000*	0013A	:TPASTARGET		:
		U.178: .WORD	<<SYPRO-U.178>-2>	:
7044	0013C	:TPASTYPE		:
		U.179: .WORD	28740	:
00000000*	0013E	:TPASADDR		:
		U.180: .LONG	<<FPROT_VALUE-U.180>-4>	:
00000008	00142	:TPASMASK		:
		U.181: .LONG	8	:
0000*	00146	:TPASTARGET		:
		U.182: .WORD	<<SYPRO-U.182>-2>	:
704C	00148	:TPASTYPE		:
		U.183: .WORD	28748	:
00000000*	0014A	:TPASADDR		:
		U.184: .LONG	<<FPROT_VALUE-U.184>-4>	:
00000008	0014E	:TPASMASK		:
		U.185: .LONG	8	:
0000*	00152	:TPASTARGET		:
		U.186: .WORD	<<SYPRO-U.186>-2>	:
15F6	00154	:TPASTYPE		:
		U.187: .WORD	5622	:
0000*	00156	:TPASTARGET		:
		U.188: .WORD	<<U.161-U.188>-2>	:
	00158	:OWPR		:
		U.139: .BLKB	0	:
003A	00158	:TPASTYPE		:
		U.189: .WORD	58	:
003D	0015A	:TPASTYPE		:
		U.190: .WORD	61	:
15F6	0015C	:TPASTYPE		:
		U.191: .WORD	5622	:
0000*	0015E	:TPASTARGET		:
		U.192: .WORD	<<U.161-U.192>-2>	:
	00160	:OWPRO: .BLKB	0	:
7052	00160	:TPASTYPE		:
		U.193: .WORD	28754	:
00000000*	00162	:TPASADDR		:
		U.194: .LONG	<<FPROT_VALUE-U.194>-4>	:
00000010	00166	:TPASMASK		:
		U.195: .LONG	16	:
0000*	0016A	:TPASTARGET		:
		U.196: .WORD	<<OWPRO-U.196>-2>	:
7057	0016C	:TPASTYPE		:
		U.197: .WORD	28759	:
00000000*	0016E	:TPASADDR		:
		U.198: .LONG	<<FPROT_VALUE-U.198>-4>	:
00000020	00172	:TPASMASK		:

0000*	00176	U.199: .LONG	32	:
		:TPASTARGET		:
7045	00178	U.200: .WORD	<<OWPRO-U.200>-2>	:
		:TPASTYPE		:
00000000*	0017A	U.201: .WORD	28741	:
		:TPASADDR		:
00000040	0017E	U.202: .LONG	<<FPROT_VALUE-U.202>-4>	:
		:TPASMASK		:
0000*	00182	U.203: .LONG	64	:
		:TPASTARGET		:
7050	00184	U.204: .WORD	<<OWPRO-U.204>-2>	:
		:TPASTYPE		:
00000000*	00186	U.205: .WORD	28752	:
		:TPASADDR		:
00000040	0018A	U.206: .LONG	<<FPROT_VALUE-U.206>-4>	:
		:TPASMASK		:
0000*	0018E	U.207: .LONG	64	:
		:TPASTARGET		:
7044	00190	U.208: .WORD	<<OWPRO-U.208>-2>	:
		:TPASTYPE		:
00000000*	00192	U.209: .WORD	28740	:
		:TPASADDR		:
00000080	00196	U.210: .LONG	<<FPROT_VALUE-U.210>-4>	:
		:TPASMASK		:
0000*	0019A	U.211: .LONG	128	:
		:TPASTARGET		:
704C	0019C	U.212: .WORD	<<OWPRO-U.212>-2>	:
		:TPASTYPE		:
00000000*	0019E	U.213: .WORD	28748	:
		:TPASADDR		:
00000080	001A2	U.214: .LONG	<<FPROT_VALUE-U.214>-4>	:
		:TPASMASK		:
0000*	001A6	U.215: .LONG	128	:
		:TPASTARGET		:
15F6	001AB	U.216: .WORD	<<OWPRO-U.216>-2>	:
		:TPASTYPE		:
0000*	001AA	U.217: .WORD	5622	:
		:TPASTARGET		:
	001AC	U.218: .WORD	<<U.161-U.218>-2>	:
		:GRPR		:
003A	001AC	U.147: .BLKB	0	:
		:TPASTYPE		:
003D	001AE	U.219: .WORD	58	:
		:TPASTYPE		:
15F6	001B0	U.220: .WORD	61	:
		:TPASTYPE		:
0000*	001B2	U.221: .WORD	5622	:
		:TPASTARGET		:
	001B4	U.222: .WORD	<<U.161-U.222>-2>	:
		:GRPRO: .BLKB	0	:
7052	001B4	:TPASTYPE		:
		U.223: .WORD	28754	:
00000000*	001B6	:TPASADDR		:
		U.224: .LONG	<<FPROT_VALUE-U.224>-4>	:
00000100	001BA	:TPASMASK		:
		U.225: .LONG	256	:
0000*	001BE	:TPASTARGET		:

7057	001C0	U.226: WORD	<<GRPRO-U.226>-2>	:
		:TPASTYPE		:
00000000*	001C2	U.227: WORD	28759	:
		:TPASADDR		:
00000200	001C6	U.228: LONG	<<FPROT_VALUE-U.228>-4>	:
		:TPASMASK		:
0000*	001CA	U.229: LONG	512	:
		:TPASTARGET		:
7045	001CC	U.230: WORD	<<GRPRO-U.230>-2>	:
		:TPASTYPE		:
00000000*	001CE	U.231: WORD	28741	:
		:TPASADDR		:
00000400	001D2	U.232: LONG	<<FPROT_VALUE-U.232>-4>	:
		:TPASMASK		:
0000*	001D6	U.233: LONG	1024	:
		:TPASTARGET		:
7050	001D8	U.234: WORD	<<GRPRO-U.234>-2>	:
		:TPASTYPE		:
00000000*	001DA	U.235: WORD	28752	:
		:TPASADDR		:
00000400	001DE	U.236: LONG	<<FPROT_VALUE-U.236>-4>	:
		:TPASMASK		:
0000*	001E2	U.237: LONG	1024	:
		:TPASTARGET		:
7044	001E4	U.238: WORD	<<GRPRO-U.238>-2>	:
		:TPASTYPE		:
00000000*	001E6	U.239: WORD	28740	:
		:TPASADDR		:
00000800	001EA	U.240: LONG	<<FPROT_VALUE-U.240>-4>	:
		:TPASMASK		:
0000*	001EE	U.241: LONG	2048	:
		:TPASTARGET		:
704C	001F0	U.242: WORD	<<GRPRO-U.242>-2>	:
		:TPASTYPE		:
00000000*	001F2	U.243: WORD	28748	:
		:TPASADDR		:
00000800	001F6	U.244: LONG	<<FPROT_VALUE-U.244>-4>	:
		:TPASMASK		:
0000*	001FA	U.245: LONG	2048	:
		:TPASTARGET		:
15F6	001FC	U.246: WORD	<<GRPRO-U.246>-2>	:
		:TPASTYPE		:
0000*	001FE	U.247: WORD	5622	:
		:TPASTARGET		:
	00200	U.248: WORD	<<U.161-U.248>-2>	:
		:WOPR		:
003A	00200	U.155: BLKB	0	:
		:TPASTYPE		:
003D	00202	U.249: WORD	58	:
		:TPASTYPE		:
15F6	00204	U.250: WORD	61	:
		:TPASTYPE		:
0000*	00206	U.251: WORD	5622	:
		:TPASTARGET		:
		U.252: WORD	<<U.161-U.252>-2>	:
	00208	WOPRO: BLKB	0	:
7052	00208	:TPASTYPE		:

00000000*	0020A	U.253: .WORD	28754	:
		:TPASADDR		:
00001000	0020E	U.254: .LONG	<<FPROT_VALUE-U.254>-4>	:
		:TPASMASK		:
0000*	00212	U.255: .LONG	4096	:
		:TPASTARGET		:
7057	00214	U.256: .WORD	<<WOPRO-U.256>-2>	:
		:TPASTYPE		:
00000000*	00216	U.257: .WORD	28759	:
		:TPASADDR		:
00002000	0021A	U.258: .LONG	<<FPROT_VALUE-U.258>-4>	:
		:TPASMASK		:
0000*	0021E	U.259: .LONG	8192	:
		:TPASTARGET		:
7045	00220	U.260: .WORD	<<WOPRO-U.260>-2>	:
		:TPASTYPE		:
00000000*	00222	U.261: .WORD	28741	:
		:TPASADDR		:
00004000	00226	U.262: .LONG	<<FPROT_VALUE-U.262>-4>	:
		:TPASMASK		:
0000*	0022A	U.263: .LONG	16384	:
		:TPASTARGET		:
7050	0022C	U.264: .WORD	<<WOPRO-U.264>-2>	:
		:TPASTYPE		:
00000000*	0022E	U.265: .WORD	28752	:
		:TPASADDR		:
00004000	00232	U.266: .LONG	<<FPROT_VALUE-U.266>-4>	:
		:TPASMASK		:
0000*	00236	U.267: .LONG	16384	:
		:TPASTARGET		:
7044	00238	U.268: .WORD	<<WOPRO-U.268>-2>	:
		:TPASTYPE		:
00000000*	0023A	U.269: .WORD	28740	:
		:TPASADDR		:
00008000	0023E	U.270: .LONG	<<FPROT_VALUE-U.270>-4>	:
		:TPASMASK		:
0000*	00242	U.271: .LONG	32768	:
		:TPASTARGET		:
704C	00244	U.272: .WORD	<<WOPRO-U.272>-2>	:
		:TPASTYPE		:
00000000*	00246	U.273: .WORD	28748	:
		:TPASADDR		:
00008000	0024A	U.274: .LONG	<<FPROT_VALUE-U.274>-4>	:
		:TPASMASK		:
0000*	0024E	U.275: .LONG	32768	:
		:TPASTARGET		:
15F6	00250	U.276: .WORD	<<WOPRO-U.276>-2>	:
		:TPASTYPE		:
0000*	00252	U.277: .WORD	5622	:
		:TPASTARGET		:
	00254	U.278: .WORD	<<U.161-U.278>-2>	:
		:ENDPRO		:
102C	00254	U.161: .BLKB	0	:
		:TPASTYPE		:
0000*	00256	U.279: .WORD	4140	:
		:TPASTARGET		:
		U.280: .WORD	<<NEXTPRO-U.280>-2>	:

```
15F7 00258 :TPASTYPE
      U.281: .WORD 5623
FFFF 0025A :TPASTARGET
      U.282: .WORD -1
      0025C RET_STATE::
      .BLKB 0
      0025C RETSTART:
      .BLKB 0
4DF8 0025C :TPASTYPE
      U.284: .WORD 19960
0000* 0025E :TPASUBEXP
      U.286: .WORD <<U.285-U.286>-2>
00000000* 00260 :TPASADDR
      U.287: .LONG <<RETMIN_VALUE-U.287>-4>
002C 00264 :TPASTYPE
      U.288: .WORD 44
15F7 00266 :TPASTYPE
      U.289: .WORD 5623
FFFF 00268 :TPASTARGET
      U.290: .WORD -1
4DF8 0026A :TPASTYPE
      U.291: .WORD 19960
0000* 0026C :TPASUBEXP
      U.292: .WORD <<U.285-U.292>-2>
00000000* 0026E :TPASADDR
      U.293: .LONG <<RETMAX_VALUE-U.293>-4>
15F7 00272 :TPASTYPE
      U.294: .WORD 5623
FFFF 00274 :TPASTARGET
      U.295: .WORD -1
      00276 :GET_DELTA
      U.285: .BLKB 0
91ED 00276 :TPASTYPE
      U.296: .WORD -28179
00000000V 00278 :TPASACTION
      U.297: .LONG <<TEST_CHAR-U.297>-4>
0000* 0027C :TPASTARGET
      U.298: .WORD <<U.285-U.298>-2>
15F6 0027E :TPASTYPE
      U.299: .WORD 5622
FFFF 00280 :TPASTARGET
      U.300: .WORD -1

      .PSECT _LIB$KEYOS, NOWRT, SHR, PIC, 1
00000 DC_KEYS::
      .BLKB 0
00000 :TPASKEY0
      U.1: .BLKB 0
0000* 00000 :TPASKEY
      U.10: .WORD <U.9-U.1>
0000* 00002 :TPASKEY
      U.16: .WORD <U.15-U.1>
0000* 00004 :TPASKEY
      U.22: .WORD <U.21-U.1>
0000* 00006 :TPASKEY
      U.28: .WORD <U.27-U.1>
```



```

00008 OWNER_KEYS::
00008 :TPASKEY0 BLKB 0
0000* 00008 U.38: .BLKB 0
0000* 00008 :TPASKEY U.40: .WORD <U.39-U.38> ;
0000A :TPASKEY .BLKB 2
0000C JOURNAL_KEYS::
0000C :TPASKEY0 BLKB 0
0000* 0000C U.58: .BLKB 0
0000* 0000C :TPASKEY U.60: .WORD <U.59-U.58> ;
0000* 0000E :TPASKEY U.66: .WORD <U.65-U.58> ;
0000* 00010 :TPASKEY U.72: .WORD <U.71-U.58> ;
0000* 00012 :TPASKEY U.78: .WORD <U.77-U.58> ;
0000* 00014 :TPASKEY U.84: .WORD <U.83-U.58> ;
0000* 00016 :TPASKEY U.90: .WORD <U.89-U.58> ;
0000* 00018 :TPASKEY U.96: .WORD <U.95-U.58> ;
0000* 0001A :TPASKEY U.102: .WORD <U.101-U.58> ;
0000* 0001C :TPASKEY U.108: .WORD <U.107-U.58> ;
0000* 0001E :TPASKEY U.114: .WORD <U.113-U.58> ;
00020 PRO_KEYS::
00020 :TPASKEY0 BLKB 0
0000* 00020 U.124: .BLKB 0
0000* 00020 :TPASKEY U.126: .WORD <U.125-U.124> ;
0000* 00022 :TPASKEY U.134: .WORD <U.133-U.124> ;
0000* 00024 :TPASKEY U.142: .WORD <U.141-U.124> ;
0000* 00026 :TPASKEY U.150: .WORD <U.149-U.124> ;
00028 RET_KEYS::
00028 :TPASKEY0 BLKB 0
00028 U.283: .BLKB 0
.PSECT $OWNS,NOEXE,2
00000003 00000008 00000 TPARSE_BLOCK:
00008 :LONG 8 3
00024 PRIVS: .BLKB 28
QUAL_ACCESS== 1
QUAL_BACKUP== 2

```

QUAL_NOBACKUP== 3
QUAL_CONFIRM== 4
QUAL_DATA== 5
QUAL_ENTER== 6
QUAL_EOF== 7
QUAL_ERASE== 8
QUAL_NOERASE== 9
QUAL_EXPI== 10
QUAL_EXTE== 11
QUAL_FPROT== 12
QUAL_GBUF== 13
QUAL_JOURNAL== 14
QUAL_LABEL== 15
QUAL_LOG== 16
QUAL_NODI== 17
QUAL_OWNER== 18
QUAL_PARENT== 19
QUAL_REMOVE== 20
QUAL_RETENT== 21
QUAL_RPROT== 22
QUAL_TRUNC== 23
QUAL_USERNAME== 24
QUAL_VPROT== 25
QUAL_VRSN== 26
QUAL_WINDOWS== 27
DATA_READ== 1
DATA_NOREAD== 2
DATA_WRITE== 3
DATA_NOWRITE== 4
JRNL_AI== 1
JRNL_NOAI== 2
JRNL_AT== 3
JRNL_NOAT== 4
JRNL_BI== 5
JRNL_NOBI== 6
JRNL_RU== 7
JRNL_NORU== 8
JRNL_RUM== 9
JRNL_NORUM== 10

.EXTRN CALCULATE MAX, SYSSFAO
.EXTRN LIBSTPARSE, LIBSCVT TIME
.EXTRN LIBSCVT DTIME, LIBSCVT_DTB
.EXTRN RENAME BUF, FILE NAME
.EXTRN FILE REF, SETSL STATUS
.EXTRN SETSA CLIWORK, SETFILESFLAGS
.EXTRN SETFILESDFLAGS, SETFILESJFLAGS
.EXTRN ACC VALUE, EXP VALUE
.EXTRN EXTE VALUE, FPROT VALUE
.EXTRN GBUF VALUE, LABEL VALUE
.EXTRN UIC VALUE, GROUP
.EXTRN MEMBER, USER VALUE
.EXTRN RETHIN VALUE, RETMAX VALUE
.EXTRN VPROT VALUE, VRSN VALUE
.EXTRN WINDOW VALUE, SETS FACILITY
.EXTRN SETS OPERREQ, SETS_WRITEERR
.EXTRN SYSSSETPRV

```
.PSECT $CODE$,NOWRT,2

.ENTRY ACC_ACT, Save R2,R3,R4,R5
MOVAB ACC_VALUE, R5
MOVAB LIB$STOP, R4
SUBL2 #8, SP
PUSHAB PRIVS
PUSHL #1
MOVQ #1, -(SP)
CALLS #4, SYSS$SETPRV
MOVL R0, STATUS
BLBS STATUS, 1$
PUSHL STATUS
CALLS #1, LIB$STOP
BBS #2, PRIVS+2, 2$
PUSHL #SET$OPERR$Q
CALLS #1, LIB$STOP
MOVL #3, ACC_VALUE
MOVL OPTION_BLOCK, R2
TSTW 4(R2)
BEQL 6$
PUSHL R5
PUSHL 8(R2)
MOVZWL 4(R2), -(SP)
CALLS #3, LIB$CVT_DTB
MOVL R0, STATUS
BLBS STATUS, 3$
PUSHL STATUS
BRB 5$
MOVL ACC_VALUE, R0
BLSS 4$
CMPL R0, #255
BLEQ 6$
PUSHL #<<<SET$FACILITY@16>+4584>+2>
PUSHAB 4(R2)
PUSHL #1
PUSHL #<<<SET$FACILITY@16>+4344>+2>
CALLS #4, LIB$STOP
MOVL #1, R0
RET
```

; Routine Size: 141 bytes, Routine Base: \$CODE\$ + 0000

SETACT
V04-000

M 3
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```
: 472      0460 1 GLOBAL ROUTINE back_act =
: 473      0461 1 ++
: 474      0462 1
: 475      0463 1 This is the action routine for the /BACKUP qualifier. It simply
: 476      0464 1 sets the correct bit in the flags word.
: 477      0465 1
: 478      0466 1 --
: 479      0467 2 BEGIN
: 480      0468 2 setfile$flags[qual_backup] = true;
: 481      0469 2 RETURN true;
: 482      0470 1 END;
```

```
00000000G 00      0000 00000
04 88 00002
01 D0 00009
04 0000C
```

```
.ENTRY BACK_ACT, Save nothing
BISB2 #4, SETFILE$FLAGS
MOVL #1, R0
RET
```

```
: 0460
: 0468
: 0469
: 0470
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 008D

SETACT
V04-000

N 3
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```
: 484      0471 1 GLOBAL ROUTINE noback_act =
: 485      0472 1 ++
: 486      0473 1
: 487      0474 1 This is the action routine for the /NOBACKUP qualifier. It simply
: 488      0475 1 sets the correct bit in the flags word.
: 489      0476 1
: 490      0477 1 --
: 491      0478 2 BEGIN
: 492      0479 2 setfile$flags[qual_nobackup] = true;
: 493      0480 2 RETURN true;
: 494      0481 1 END;
```

```
00000000G 00      0000 00000
01 88 00002
01 D0 00009
04 0000C
```

```
.ENTRY NOBACK ACT, Save nothing
BISB2 #8, SETFILE$FLAGS
MOVL #1, R0
RET
```

```
: 0471
: 0479
: 0480
: 0481
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 009A


```
.. 496 0482 1 GLOBAL ROUTINE data_act (option_block,callback) =
.. 497 0483 1 ++
.. 498 0484 1
.. 499 0485 1 This is the action routine for the /DATA_CHECK qualifier. It checks to see
.. 500 0486 1 if any options were set. If not, it defaults to DATA_CHECK=WRITE.
.. 501 0487 1
.. 502 0488 1 --
.. 503 0489 1 BEGIN
.. 504 0490 1
.. 505 0491 1 LOCAL
.. 506 0492 1 status;
.. 507 0493 1
.. 508 0494 1 MAP
.. 509 0495 1 option_block : REF BBLOCK;
.. 510 0496 1
.. 511 0497 1 IF .option_block[cli$w_qdvalsiz] EQL 0
.. 512 0498 1 THEN setfile$dfldflags[data_write] = true
.. 513 0499 1
.. 514 0500 1 ELSE
.. 515 0501 1 BEGIN
.. 516 0502 1 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
.. 517 0503 1 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
.. 518 0504 1 IF NOT (status = lib$tparse(tparse_block,
.. 519 0505 1 dc_state,dc_keys))
.. 520 0506 1 THEN
.. 521 0507 1 BEGIN
.. 522 0508 1 SIGNAL( set$_facility^16 + shr$_syntax + sts$_error,
.. 523 0509 1 1,
.. 524 0510 1 option_block[cli$q_qdvaldesc],
.. 525 0511 1 .status);
.. 526 0512 1 RETURN .status;
.. 527 0513 1 END;
.. 528 0514 1 END;
.. 529 0515 1 RETURN true;
.. 530 0516 1 END;
```

54	00000000	001C	00000	.ENTRY	DATA ACT, Save R2,R3,R4	0482
52	04	EF	9E	MOVAB	TPARSE_BLOCK+8, R4	0497
	04	AC	D0	MOVL	OPTION_BLOCK, R2	
		A2	B5	TSTW	4(R2)	
		09	12	BNEQ	1\$	
00000000G	00	08	88	BISB2	#8, SETFILE\$D_FLAGS	0498
		3D	11	BRB	2\$	
	64	A2	3C	MOVZWL	4(R2), TPARSE_BLOCK+8	0502
04	A4	A2	D0	MOVL	8(R2), TPARSE_BLOCK+12	0503
		EF	9F	PUSHAB	DC_KEYS	0504
	00000000	EF	9F	PUSHAB	DC_STATE	
	00000000	A4	9F	PUSHAB	TPARSE_BLOCK	
		03	FB	CALLS	#3, LIB\$TPARSE	
00000000G	00	50	D0	MOVL	R0, STATUS	
	53	53	EB	BLBS	STATUS, 2\$	
	18	53	DD	PUSHL	STATUS	0511
		04	A2	PUSHAB	4(R2)	0510

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0512
0515
0516

; Routine Size: 92 bytes, Routine Base: \$CODES + 00A7

```
0517 1 GLOBAL ROUTINE enter_act (option_block,callback) =
0518 ++
0519
0520 This is the action routine for the /ENTER qualifier.
0521 The new synonym is collected.
0522
0523 --
0524 BEGIN
0525
0526 MAP
0527 option_block : REF BBLOCK;
0528
0529
0530
0531 Get the expanded file string
0532
0533 CH$MOVE(.option_block[cli$w_qdvalsiz],
0534         .option_block[cli$a_qdvaladr],
0535         rename_buf);
0536
0537
0538 file_name[0] = .option_block[cli$w_qdvalsiz];
0539 file_name[1] = .option_block[cli$a_qdvaladr];
0540
0541 RETURN true;
0542 1 END;
```

```
00000000G 00 08 B6 04 AC D0 00002
00000000G 00 00 04 A6 28 00006
00000000G 00 00 04 A6 3C 00010
00000000G 00 50 08 A6 D0 00018
01 D0 00020
04 00023
```

```
.ENTRY ENTER ACT, Save R2,R3,R4,R5,R6
MOVL OPTION_BLOCK, R6
MOVC3 4(R6), 28(R6), RENAME_BUF
MOVZWL 4(R6), FILE_NAME
MOVL 8(R6), FILE_NAME+4
MOVL #1, R0
RET
```

```
: 0517
: 0534
:
: 0538
: 0539
: 0541
: 0542
```

; Routine Size: 36 bytes, Routine Base: \$CODE\$ + 0103

SETACT
V04-000

E 4
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```
: 559      0543 1 GLOBAL ROUTINE erase_act =  
: 560      0544 1 ++  
: 561      0545 1 |  
: 562      0546 1 | This is the action routine for the /ERASE qualifier. It simply  
: 563      0547 1 | sets the correct bit in the flags word.  
: 564      0548 1 |  
: 565      0549 1 |--  
: 566      0550 2 BEGIN  
: 567      0551 2 setfile$flags[qual_erase] = true;  
: 568      0552 2 RETURN true;  
: 569      0553 1 END;
```

00000000G	00	0000 0000	.ENTRY	ERASE ACT, Save nothing	: 0543
	50	01 88 00002	BISB2	#1, SETFILE\$FLAGS+1	: 0551
		01 D0 00009	MOVL	#1, R0	: 0552
		04 0000C	RET		: 0553

: Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0127

SETACT
V04-000

F 4
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[CLIUTL.SRC]SETACT.B32;1

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```
: 571      0554 1 GLOBAL ROUTINE noerase_act =  
: 572      0555 1 ++  
: 573      0556 1 |  
: 574      0557 1 | This is the action routine for the /NOERASE qualifier. It simply  
: 575      0558 1 | sets the correct bit in the flags word.  
: 576      0559 1 |  
: 577      0560 1 |--  
: 578      0561 2 BEGIN  
: 579      0562 2 setfile$flags[qual_noerase] = true;  
: 580      0563 2 RETURN true;  
: 581      0564 1 END;
```

```
00000000G 00      0000 00000  
02 88 00002  
01 D0 00009  
04 0000C
```

```
.ENTRY NOERASE_ACT, Save nothing  
BISB2 #2, SETFILE$FLAGS+1  
MOVL #1, R0  
RET
```

```
: 0554  
: 0562  
: 0563  
: 0564
```

: Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0134


```
0565 1 GLOBAL ROUTINE exp_act (option_block,callback) =
0566 1 ++
0567 1
0568 1 This is the action routine for the /EXPIRATION qualifier.
0569 1 If no value is given, exit with a syntax error.
0570 1
0571 1 --
0572 1 BEGIN
0573 1
0574 1 LOCAL
0575 1     status,
0576 1     desc : BBLOCK[dsc$c_s_bln];
0577 1
0578 1 MAP
0579 1     option_block : REF BBLOCK;          ! Define the CLI options block
0580 1
0581 1
0582 1 Get the date, signalling a syntax error if no good.
0583 1
0584 1
0585 1 desc[dsc$w_length] = .option_block[cli$q_dvalsiz];
0586 1 desc[dsc$a_pointer] = .option_block[cli$a_qdvaladr];
0587 1 IF NOT (status = LIB$CVT_TIME(desc,exp_value))
0588 1 THEN
0589 1     BEGIN
0590 1         SIGNAL_STOP( set$facility*16 + shr$syntax + sts$sk_error,
0591 1                     1,
0592 1                     option_block[cli$q_qdvaldesc],
0593 1                     .status);
0594 1     RETURN .status;
0595 1     END
0596 1 ELSE RETURN true;
0597 1 END;
```

				000C	00000	.ENTRY	EXP_ACT, Save R2,R3		0565
	5E			08	C2	SUBL2	#8, SP		
	52	04		AC	D0	MOVL	OPTION_BLOCK, R2		0585
	6E	04		A2	B0	MOVW	4(R2), DESC		
	AE	08		A2	D0	MOVL	8(R2), DESC+4		0586
			00000000G	00	9F	PUSHAB	EXP_VALUE		0587
				04	AE	PUSHAB	DESC		
				02	FB	CALLS	#2, LIB\$CVT_TIME		
00000000G	00			50	D0	MOVL	R0, STATUS		
	53			53	E8	BLBS	STATUS, 1\$		
	18			53	DD	PUSHL	STATUS		0593
		04		A2	9F	PUSHAB	4(R2)		0592
				01	DD	PUSHL	#1		
			00000000+	8F	DD	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>		
00000000G	00			04	FB	CALLS	#4, LIB\$STOP		
	50			53	D0	MOVL	STATUS, R0		0596
					04	RET			
	50			01	D0	MOVL	#1, R0		
				04	00043	RET			0597

SETACT
V04-000

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[CLIUTL.SRC]SETACT.B32;1

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; Routine Size: 68 bytes, Routine Base: \$CODES + 0141

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```

: 617      0598 1 GLOBAL ROUTINE noexp_act =
: 618      0599 1 ++
: 619      0600 1
: 620      0601 1 This is the action routine for the /NOEXPIRATION_DATE qualifier.
: 621      0602 1 It supplies an expiration date of zero.
: 622      0603 1
: 623      0604 1 --
: 624      0605 2 BEGIN
: 625      0606 2
: 626      0607 2 CHSFILL(0,8,exp_value);      ! Zero out the expiration date
: 627      0608 2 setfile$flags[qual_expi] = true; ! Set the expiration flag on
: 628      0609 2
: 629      0610 2 RETURN true;
: 630      0611 1 END;
```

08	00	6E	003C 00000	.ENTRY NOEXP_ACT, Save R2,R3,R4,R5	: 0598
			00 2C 00002	MOVCS #0, (SP), #0, #8, EXP_VALUE	: 0607
	00000000G	00	00 88 0000C	BISB2 #4, SETFILE\$FLAGS+1	: 0608
		50	01 D0 00013	MOVL #1, R0	: 0610
			04 00016	RET	: 0611

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 0185

```
0612 1 GLOBAL ROUTINE ext_act (option_block,callback) =
0613 1 ++
0614 1
0615 1 This is the action routine for the /EXTENSION qualifier. If no value is
0616 1 specified, the default value of 0 is used.
0617 1
0618 1 --
0619 1 BEGIN
0620 1
0621 1 LOCAL
0622 1     status,
0623 1     desc : BBLOCK[dsc$e_s_bln];
0624 1
0625 1 MAP
0626 1     option_block : REF BBLOCK;           ! Define the CLI options block
0627 1
0628 1     exte_value = 0;                       ! Set up default
0629 1
0630 1
0631 1 See if a value was specified. If not, then use the default.
0632 1
0633 1 IF .option_block[cli$qdvalsiz] EQL 0
0634 1 THEN RETURN true;
0635 1
0636 1
0637 1 If the value is there, convert it and return
0638 1
0639 1 IF NOT (status = LIB$CVT_DTB(.option_block[cli$qdvalsiz],
0640 1                             .option_block[cli$qdvaladr],
0641 1                             exte_value))
0642 1 THEN
0643 1     BEGIN
0644 1         SIGNAL_STOP(set$facility*16 + shr$syntax + sts$sk_error,
0645 1                     1,
0646 1                     option_block[cli$qdvaldesc],
0647 1                     .status);
0648 1     END
0649 1 ELSE
0650 1     BEGIN
0651 1         IF NOT (.exte_value GEQ 0
0652 1             AND
0653 1             .exte_value LEQ 65535)
0654 1         THEN SIGNAL_STOP(set$facility*16 + shr$syntax + sts$sk_error,
0655 1                         1,
0656 1                         option_block[cli$qdvaldesc],
0657 1                         set$facility*16 + shr$valerr + sts$sk_error);
0658 1     END;
0659 1
0660 1 RETURN true;
0661 1 END;
```

```
53 00000000G 00 0000 00000
00 9E 00002
```

```
.ENTRY EXT_ACT, Save R2,R3
MOVAB EXTE_VALUE, R3
```

```
: 0612
:
```

SETACT
V04-000

K 4
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5E		08	C2	00009	SUBL2	#8, SP	...	
		63	D4	0000C	CLRL	EXTE_VALUE	...	0628
52		04	AC	D0	MOVL	OPTION_BLOCK, R2	...	0633
		04	A2	B5	TSTW	4(R2)	...	
			3D	13	BEQL	4\$...	
			53	DD	PUSHL	R3	...	0639
		08	A2	DD	PUSHL	8(R2)	...	0640
		04	A2	3C	MOVZWL	4(R2), -(SP)	...	0639
00000000G	7E		03	FB	CALLS	#3, LIB\$CVT_DTB	...	
	00		50	E8	BLBS	STATUS, 1\$...	
	04		50	DD	PUSHL	STATUS	...	0647
			14	11	BRB	3\$...	0646
	50		63	D0	MOVL	EXTE_VALUE, R0	...	0651
			09	19	BLSS	2\$...	
0000FFFF	8F		50	D1	CMPL	R0, #65535	...	0653
			18	15	BLEQ	4\$...	
		00000000*	8F	DD	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	...	0657
		04	A2	9F	PUSHAB	4(R2)	...	0656
			01	DD	PUSHL	#1	...	
		00000000*	8F	DD	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	...	
00000000G	00		04	FB	CALLS	#4, LIB\$STOP	...	
	50		01	D0	MOVL	#1, R0	...	0660
			04	00057	RET		...	0661

; Routine Size: 88 bytes, Routine Base: \$CODE\$ + 019C


```
0662 1 GLOBAL ROUTINE fprot_act (option_block,callback) =
0663 1 ++
0664 1
0665 1 This is the action routine for the /FILE PROTECTION qualifier of
0666 1 SET VOLUME. The protection is parsed and stored away. If the
0667 1 protection is not valid, a fatal error message is issued.
0668 1
0669 1 --
0670 1 BEGIN
0671 1
0672 1 LOCAL status; ! Status return
0673 1
0674 1 MAP option_block : REF BBLOCK; ! Define the option block
0675 1
0676 1
0677 1 Stuff the TPARSE block with the string
0678 1
0679 1 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
0680 1 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
0681 1
0682 1 fprot_value = 0; ! Initialize file protection value
0683 1
0684 1
0685 1 Now to parse the protection given. When finished, FPROT_VALUE will
0686 1 have the following values:
0687 1
0688 1 FPROT_VALUE[low_word] = protection value
0689 1 FPROT_VALUE[high_word] = group mask i.e. SYSTEM, OWNER, GROUP, WORLD
0690 1
0691 1 IF NOT (status = LIB$TPARSE(tparse_block,
0692 1 pro_state,
0693 1 pro_keys))
0694 1 THEN SIGNAL_STOP(set$_facility^T6 + shr$_syntax + sts$_error,
0695 1 1,
0696 1 option_block[cli$q_qdvaldesc],
0697 1 .status);
0698 1
0699 1 RETURN true;
0700 1
0701 1
0702 1
0703 1
0704 1
0705 1
0706 1
0707 1
0708 1
0709 1
0710 1
0711 1
0712 1
0713 1
0714 1
0715 1
0716 1
0717 1
0718 1
0719 1
0720 1
```

			000C 00000	.ENTRY FPROT ACT, Save R2,R3	0662
	53	00000000'	EF 9E 00002	MOVAB TPARSE_BLOCK+8, R3	
	52	04	AC D0 00009	MOVL OPTION_BLOCK, R2	0679
	63	04	A2 3C 0000D	MOVZWL 4(R2), TPARSE_BLOCK+8	
04	A3	08	A2 D0 00011	MOVL 8(R2), TPARSE_BLOCK+12	0680
		00000000G	00 D4 00016	CLRL FPROT_VALUE	0682
		00000000'	EF 9F 0001C	PUSHAB PRO_KEYS	0691
		00000000'	EF 9F 00022	PUSHAB PRO_STATE	
		F8	A3 9F 00028	PUSHAB TPARSE_BLOCK	
00000000G	00		03 FB 0002B	CALLS #3, LIB\$TPARSE	
	14		50 EB 00032	BLBS STATUS, 1\$	
			50 DD 00035	PUSHL STATUS	0697
		04	A2 9F 00037	PUSHAB 4(R2)	0696
			01 DD 0003A	PUSHL #1	

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```

00000000G  00 00000000*  8F DD 0003C  PUSHL  #<<<SETS FACILITY@16>+4344>+2>
              50      04 FB 00042  CALLS  #4, LIB$STOP
              01  DO 00049 1$:  MOVL  #1, R0
              04 0004C  RET

```

```

; Routine Size:  77 bytes,      Routine Base:  SCODES + 01F4

```

```
0700 1 GLOBAL ROUTINE gbuf_act (option_block,callback) =
0701 1 ++
0702 1
0703 1 This is the action routine for the GLOBAL_BUFFER qualifier. The number of
0704 1 global buffers desired is collected.
0705 1
0706 1 --
0707 1 BEGIN
0708 1
0709 1 LOCAL
0710 1     status,
0711 1     desc : BBLOCK[dsc$c_s_bln];
0712 1
0713 1 MAP
0714 1     option_block : REF BBLOCK;          ! Define the CLI options block
0715 1
0716 1
0717 1 Convert the value given (in ASCII) to a numeric value.
0718 1
0719 1 IF NOT (status = LIB$CVT_DTB(.option_block[cli$q_dvalsiz],
0720 1                             .option_block[cli$a_qdvaladr],
0721 1                             gbuf_value))
0722 1 THEN
0723 1     BEGIN
0724 1         SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_error,
0725 1                     1,
0726 1                     option_block[cli$q_qdvaldesc],
0727 1                     .status);
0728 1     END
0729 1 ELSE
0730 1     BEGIN
0731 1
0732 1 If the value is not a word or less in length, signal an error.
0733 1
0734 1 IF NOT (.gbuf_value GEQ 0 AND .gbuf_value LEQ 65535)
0735 1 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_error,
0736 1                 1,
0737 1                 option_block[cli$q_qdvaldesc],
0738 1                 set$_facility*16 + shr$_valerr + sts$_error);
0739 1
0740 1 END;
0741 1 RETURN true;
0742 1 END;
```

			000C 00000	.ENTRY	GBUF_ACT, Save R2,R3	
53	00000000G	00	9E 00002	MOVAB	GBUF_VALUE, R3	
5E		08	C2 00009	SUBL2	#8, SP	
		53	DD 0000C	PUSHL	R3	
52		04	AC DD 0000E	MOVL	OPTION_BLOCK, R2	
		08	A2 DD 00012	PUSHL	8(R2)	
7E		04	A2 3C 00015	MOVZWL	4(R2), -(SP)	
00000000G	00	03	FB 00019	CALLS	#3, LIB\$CVT_DTB	
	04	50	EB 00020	BLBS	STATUS, 18	

```
0700
0719
0720
0719
```

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		50	DD	00023	PUSHL	STATUS	...	0727
		14	11	00025	BRB	3\$...	0726
	50	63	D0	00027	1\$:	MOVL	GBUF_VALUE, R0	0734
		09	19	0002A	BLSS	2\$		
0000FFFF	8F	50	D1	0002C	CMPL	R0, #65535		
		18	15	00033	BLEQ	4\$		
	00000000*	8F	DD	00035	2\$:	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	0738
	04	A2	9F	0003B	3\$:	PUSHAB	4(R2)	0737
		01	DD	0003E	PUSHL	#1		
	00000000*	8F	DD	00040	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>		
00000000G	00	04	FB	00046	CALLS	#4, LIB\$STOP		
	50	01	D0	0004D	4\$:	MOVL	#1, R0	0741
		04	00	00050	RET			0742

; Routine Size: 81 bytes, Routine Base: \$CODE\$ + 0241

```
766 0743 1 GLOBAL ROUTINE journal_act (option_block,callback) =
767 0744 1 ++
768 0745 1
769 0746 1 This is the action routine for the /JOURNAL qualifier. Based on the
770 0747 1 journal types set, specific journaling bits are set.
771 0748 1
772 0749 1 --
773 0750 2 BEGIN
774 0751 2
775 0752 2 LOCAL
776 0753 2 status;
777 0754 2
778 0755 2 MAP
779 0756 2 option_block : REF BBLOCK;
780 0757 2
781 0758 2
782 0759 2 Use TPARSE to parse the journal list.
783 0760 2
784 0761 2
785 0762 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$q_dvalsiz];
786 0763 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
787 0764 2
788 0765 2 IF NOT (status = LIB$TPARSE(tparse_block, journal_state, journal_keys))
789 0766 2 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_k_error,
790 0767 2 1,
791 0768 2 option_block[cli$q_qdvaldesc],
792 0769 2 .status);
793 0770 2
794 0771 2 If both RU and RUM were specified, then signal a syntax error.
795 0772 2
796 0773 2
797 0774 2 IF (.setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_rum])
798 0775 2 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_k_error,
799 0776 2 1,
800 0777 2 option_block[cli$q_qdvaldesc],
801 0778 2 set$_facility*16 + shr$_confqual + sts$_k_error);
802 0779 2
803 0780 2 RETURN true;
804 0781 1 END;
```

```
001C 00000
54 00000000G 00 9E 00002
53 00000000' EF 9E 00009
52 04 AC D0 00010
63 04 A2 3C 00014
04 A3 08 A2 D0 00018
00000000' EF 9F 0001D
00000000' EF 9F 00023
F8 A3 9F 00029
00000000G 00 03 FB 0002C
10 50 EB 00033
50 DD 00036
04 A2 9F 00038
```

```
.ENTRY JOURNAL_ACT, Save R2,R3,R4
MOVAB LIB$STOP, R4
MOVAB TPARSE_BLOCK+8, R3
MOVL OPTION_BLOCK, R2
MOVZWL 4(R2), TPARSE_BLOCK+8
MOVL 8(R2), TPARSE_BLOCK+12
PUSHAB JOURNAL_KEYS
PUSHAB JOURNAL_STATE
PUSHAB TPARSE_BLOCK
CALLS #3, LIB$TPARSE
BLBS STATUS, 1$
PUSHL STATUS
PUSHAB 4(R2)
```

```
: 0743
:
: 0762
: 0763
: 0765
:
: 0769
: 0768
```


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		01	DD	0003B	PUSHL	#1		
		8F	DD	0003D	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>		
64	00000000*	04	FB	00043	CALLS	#4, LIB\$STOP		
	00000000G	00	95	00046	TSTB	SETFILESJFLAGS		0774
		1C	18	0004C	BGEQ	2\$		
14	00000000G	00	01	E1	0004E	#1, SETFILESJFLAGS+1, 2\$		
	00000000*	8F	DD	00056	BBC	#<<<SET\$ FACILITY@16>+4832>+2>		0778
	04	A2	9F	0005C	PUSHL	4(R2)		0777
		01	DD	0005F	PUSHL	#1		
	00000000*	8F	DD	00061	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>		
64		04	FB	00067	CALLS	#4, LIB\$STOP		
50		01	D0	0006A	MOVL	#1, R0		0780
		04	0006D	RET				0781

; Routine Size: 110 bytes, Routine Base: \$CODE\$ + 0292

```
GLOBAL ROUTINE label_act (option_block, callback) =
++
|
| This is the action routine for the LABEL qualifier of SET VOLUME. It
| retrieves the value of the string, checks that it is no longer than
| twelve characters, and stores length and location in LABEL_VALUE.
|
--
BEGIN

LOCAL status;                                ! Status return

MAP option_block : REF BBLOCK;                ! Define the cli block

|
| Check that the string is no longer than twelve characters.
|
IF .option_block[cli$w_qdvalsiz] GTR 12
THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
|
|                               1,
|                               option_block[cli$q_qdvaldesc],
|                               set$_facility^16 + shr$_valerr + sts$_error);
|
| Store the location and length in LABEL_VALUE
|
label_value[0] = .option_block[cli$w_qdvalsiz];
label_value[1] = .option_block[cli$a_qdvaladr];

RETURN true;
END;
```

```

.ENTRY LABEL ACT, Save R2
MOVL OPTION_BLOCK, R2
CMPW 4(R2), -#12
BLEQU 1$
PUSHL #<<<SETS_FACILITY@16>+4584>+2>
PUSHAB 4(R2)
PUSHL #1
PUSHL #<<<SETS_FACILITY@16>+4344>+2>
CALLS #4, LIB$STOP
MOVZWL 4(R2), LABEL_VALUE
MOVL 8(R2), LABEL_VALUE+4
MOVL #1, R0
RET

```

; Routine Size: 56 bytes, Routine Base: SCODES + 0300

```
0837 0812 1 GLOBAL ROUTINE owner_act (option_block,callback) =
0838 0813 1 ++
0839 0814 1
0840 0815 1 This is the action routine for the OWNER_UIC qualifier. The input is
0841 0816 1 parsed to obtain the group and member numbers of the UIC.
0842 0817 1
0843 0818 1 --
0844 0819 2 BEGIN
0845 0820 2
0846 0821 2 LOCAL
0847 0822 2 status; ! Status
0848 0823 2
0849 0824 2 MAP
0850 0825 2 option_block : REF BBLOCK;
0851 0826 2
0852 0827 2 uic_value = 0; ! Set the UIC value to zero initially
0853 0828 2
0854 0829 2
0855 0830 2 Check to see if UIC specified. If not, use current process UIC.
0856 0831 2
0857 0832 2 IF .option_block[cli$w_qdvalsiz] EQL 0
0858 0833 2 THEN $GETJPI(ITMLST = DPLIT(WORD(4, jpi$ uic),
0859 0834 2 uic_value,
0860 0835 2 0,
0861 0836 2 0))
0862 0837 2 ELSE
0863 0838 2 BEGIN
0864 0839 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
0865 0840 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
0866 0841 2 IF NOT (status = lib$tparse(tparse_block,
0867 0842 2 owner_state,
0868 0843 2 owner_keys))
0869 0844 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,
0870 0845 2 1,
0871 0846 2 option_block[cli$q_qdvaldesc]);
0872 0847 2 IF NOT .setfile$flags[qual_parent]
0873 0848 2 THEN
0874 0849 2 BEGIN
0875 0850 2 IF NOT ((.group LEQ X0'377' AND .group GEQ 0)
0876 0851 2 AND
0877 0852 2 (.member LEQ X0'377' AND .member GEQ 0))
0878 0853 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,
0879 0854 2 1,
0880 0855 2 option_block[cli$q_qdvaldesc],
0881 0856 2 set$_facility^16 + shr$_valerr + sts$_k_error)
0882 0857 2 ELSE uic_value = .group^16 + .member;
0883 0858 2 END;
0884 0859 2 END;
0885 0860 2
0886 0861 2 RETURN true;
0887 0862 2 END;
```

.PSECT SPLITS,NOWRT,NOEXE,2

0304 0004 00000 P.AAA: .WORD 4, 772

	00000000	00000000	00004	00008	.ADDRESS UIC_VALUE	
					.LONG 0, 0	...
					.EXTRN SYS\$GETJPI	
					.PSECT \$CODE\$,NOWRT,2	
			007C	00000	.ENTRY OWNER ACT, Save R2,R3,R4,R5,R6	0812
56	00000000G	00	9E	00002	MOVAB UIC_VALUE, R6	
55	00000000G	00	9E	00009	MOVAB MEMBER, R5	
54	00000000G	00	9E	00010	MOVAB LIB\$STOP, R4	
53	000000000'	EF	9E	00017	MOVAB TPARSE_BLOCK+8, R3	
		66	D4	0001E	CLRL UIC_VALUE	0827
52	04	AC	D0	00020	MOVL OPTION_BLOCK, R2	0832
	04	A2	B5	00024	TSTW 4(R2)	
		17	12	00027	BNEQ 1\$	
		7E	7C	00029	CLRG -(SP)	0836
		7E	D4	0002B	CLRL -(SP)	
	000000000'	EF	9F	0002D	PUSHAB P.AAA	
		7E	7C	00033	CLRG -(SP)	
		7E	D4	00035	CLRL -(SP)	
00000000G	00	07	FB	00037	CALLS #7, SYS\$GETJPI	
		7A	11	0003E	BRB 5\$	
	63	04	A2	3C	00040 1\$:	0839
04	A3	08	A2	D0	00044	0840
	000000000'	EF	9F	00049	MOVAB 8(R2), TPARSE_BLOCK+12	0841
	000000000'	EF	9F	0004F	PUSHAB OWNER_KEYS	
	F8	A3	9F	00055	PUSHAB OWNER_STATE	
00000000G	00	03	FB	00058	PUSHAB TPARSE_BLOCK	
0E		50	EB	0005F	CALLS #3, LIB\$TPARSE	
	04	A2	9F	00062	BLBS STATUS, 2\$	
		01	DD	00065	PUSHAB 4(R2)	0846
	000000000*	8F	DD	00067	PUSHL #1	
	64	03	FB	0006D	PUSHL #<<<SETS FACILITY@16>+4344>+2>	
42	00000000G	00	03	E0	00070 2\$:	0847
	50	00000000G	00	D0	00078	0850
000000FF	8F	50	D1	0007F	BBS #3, SETFILES\$FLAGS+2, 5\$	
		14	14	00086	MOVL GROUP, R0	
		50	D5	00088	CMPL R0, #255	
		10	19	0008A	BGTR 3\$	
	51	65	D0	0008C	TSTL R0	
000000FF	8F	51	D1	0008F	BLSS 3\$	
		04	14	00096	MOVL MEMBER, R1	0852
		51	D5	00098	CMPL R1, #255	
		16	18	0009A	BGTR 3\$	
	000000000*	8F	DD	0009C	TSTL R1	
	04	A2	9F	000A2	BGEQ 4\$	
		01	DD	000A5	PUSHL #<<<SETS FACILITY@16>+4584>+2>	0856
	000000000*	8F	DD	000A7	PUSHAB 4(R2)	0855
64		04	FB	000AD	PUSHL #1	
		08	11	000B0	PUSHL #<<<SETS FACILITY@16>+4344>+2>	
50	50	10	78	000B2	CALLS #4, LIB\$STOP	
66	50	65	C1	000B6	BRB 5\$	
	50	01	D0	000BA	ASHL #16, R0, R0	0857
		04	000BD	5\$:	ADDL3 MEMBER, R0, UIC_VALUE	
					MOVL #1, R0	0861
					RET	0862

; Routine Size: 190 bytes. Routine Base: \$CODE\$ + 0338

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```
889 0863 GLOBAL ROUTINE retent_act (option_block,callback) =
890 0864 ++
891 0865
892 0866 This is the action routine for the /RETENTION qualifier.
893 0867 The minimum retention value must be given. If no maximum retention value is
894 0868 specified, a value of twice the minimum (but no more than a week more than
895 0869 the minimum) is used.
896 0870
897 0871 --
898 0872 BEGIN
899 0873
900 0874 LOCAL
901 0875     status,
902 0876     temp_desc : BBLOCK[dsc$e_s_bln];
903 0877
904 0878 MAP
905 0879     option_block : REF BBLOCK;           ! Define the CLI options block
906 0880
907 0881
908 0882
909 0883 Parse the input, to obtain the minimum and maximum retention times.
910 0884
911 0885
912 0886 CH$FILL(0, 8, retmin_value);             ! Zero minimum value
913 0887 CH$FILL(0, 8, retmax_value);             ! Zero maximum value
914 0888
915 0889 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
916 0890 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
917 0891 IF NOT (status = lib$tparse(tparse_block, ret_state, ret_keys))
918 0892 THEN
919 0893     BEGIN
920 0894         SIGNAL(set$facility*16 + shr$s_syntax + sts$k_error,
921 0895             1,
922 0896             option_block[cli$q_qdvaldesc]);
923 0897     RETURN false;                         ! If error in parse, return false
924 0898     END;
925 0899
926 0900
927 0901 If a minimum value was not supplied, signal an error
928 0902
929 0903
930 0904 IF .retmin_value[0] EQL 0
931 0905 THEN
932 0906     BEGIN
933 0907         SIGNAL(set$facility*16 + shr$s_syntax + sts$k_error,
934 0908             1,
935 0909             option_block[cli$q_qdvaldesc]);
936 0910     RETURN false;
937 0911     END;
938 0912
939 0913
940 0914 Convert the minimum retention value to 64-bit system delta time format
941 0915
942 0916 IF NOT (status = LIB$CVT_DTIME(retmin_value, temp_desc))
943 0917 THEN
944 0918     BEGIN
945 0919         SIGNAL(set$facility*16 + shr$s_syntax + sts$k_error,
```

```

946 0920      1,
947 0921      retmin_value,
948 0922      status);
949 0923      RETURN false;
950 0924      END
951 0925      ELSE CHSMOVE(8, temp_desc, retmin_value);      ! If no error, put 64-bit
952 0926                                          ! delta time in place
953 0927
954 0928      !
955 0929      ! If a maximum value was supplied, then convert it in the same way.
956 0930      !
957 0931
958 0932      IF .retmax_value[0] NEQ 0
959 0933      THEN
960 0934          BEGIN
961 0935              IF NOT (status = LIB$CVT_DTIME(retmax_value, temp_desc))
962 0936              THEN
963 0937                  BEGIN
964 0938                      SIGNAL(set$facility*16 + shr$syntax + sts$k_error,
965 0939                          1,
966 0940                          retmax_value,
967 0941                          .status);
968 0942                      RETURN .status;
969 0943                  END
970 0944              ELSE CHSMOVE(8, temp_desc, retmax_value);
971 0945              END
972 0946
973 0947      !
974 0948      ! If no maximum value was supplied, then use twice the minimum value. If this
975 0949      ! value is greater than a week, use only a week.
976 0950      !
977 0951
978 0952      ELSE calculate_max(retmin_value, retmax_value);
979 0953
980 0954      RETURN true;
981 0955      END;
```

			OFFC 00000	.ENTRY	RETENT ACT, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0863
		5B 00000000G	00 9E 00002	MOVAB	R10,R11	
		5A 00000000G	00 9E 00009	MOVAB	LIB\$CVT_DTIME, R11	
		59 00000000'	EF 9E 00010	MOVAB	LIB\$SIGNAL, R10	
		58 00000000G	00 9E 00017	MOVAB	TPARSE_BLOCK+8, R9	
		57 00000000G	00 9E 0001E	MOVAB	RETMIN_VALUE, R8	
		5E 00000000G	00 9E 0001E	MOVAB	RETMAX_VALUE, R7	
0B	00	6E	08 C2 00025	SUBL2	#8, SP	
			00 2C 00028	MOVCS	#0, (SP), #0, #8, RETMIN_VALUE	0886
			68 0002D			
0B	00	6E	00 2C 0002E	MOVCS	#0, (SP), #0, #8, RETMAX_VALUE	0887
			67 00033			
		52 04 AC D0 00034		MOVL	OPTION_BLOCK, R2	0889
		69 04 A2 3C 00038		MOVZWL	4(R2), TPARSE_BLOCK+8	
04		A9 08 A2 D0 0003C		MOVL	8(R2), TPARSE_BLOCK+12	0890
		00000000'	EF 9F 00041	PUSHAB	RET_KEYS	0891

		00000000'	EF	9F	00047	PUSHAB	RET STATE	
		F8	A9	9F	0004D	PUSHAB	TPARSE BLOCK	
00000000G	00		03	FB	00050	CALLS	#3, LIB\$TPARSE	
	56		50	D0	00057	MOVL	R0, STATUS	
	04		56	E9	0005A	BLBC	STATUS, 1\$	
			68	D5	0005D	TSTL	RETMIN_VALUE	0904
			10	12	0005F	BNEQ	2\$	
		04	A2	9F	00061	PUSHAB	4(R2)	0909
			01	DD	00064	PUSHL	#1	
		00000000*	8F	DD	00066	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		03	FB	0006C	CALLS	#3, LIB\$SIGNAL	
			5B	11	0006F	BRB	7\$	0910
		4100	8F	BB	00071	PUSHR	#^M<R8, SP>	0916
	6B		02	FB	00075	CALLS	#2, LIB\$CVT_DTIME	
	56		50	D0	00078	MOVL	R0, STATUS	
	11		56	E8	0007B	BLBS	STATUS, 3\$	
			56	DD	0007E	PUSHL	STATUS	0922
			58	DD	00080	PUSHL	R8	0919
			01	DD	00082	PUSHL	#1	
		00000000*	8F	DD	00084	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		04	FB	0008A	CALLS	#4, LIB\$SIGNAL	
			3D	11	0008D	BRB	7\$	0923
68	6E		08	28	0008F	MOV C3	#8, TEMP_DESC, RETMIN_VALUE	0925
			67	D5	00093	TSTL	RETMAX_VALUE	0932
			26	13	00095	BEQL	5\$	
		4080	8F	BB	00097	PUSHR	#^M<R7, SP>	0935
	6B		02	FB	0009B	CALLS	#2, LIB\$CVT_DTIME	
	56		50	D0	0009E	MOVL	R0, STATUS	
	13		56	E8	000A1	BLBS	STATUS, 4\$	
			56	DD	000A4	PUSHL	STATUS	0941
			57	DD	000A6	PUSHL	R7	0938
			01	DD	000A8	PUSHL	#1	
		00000000*	8F	DD	000AA	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		04	FB	000B0	CALLS	#4, LIB\$SIGNAL	
	50		56	D0	000B3	MOVL	STATUS, R0	0942
			04	000B6	RET			
67	6E		08	28	000B7	MOV C3	#8, TEMP_DESC, RETMAX_VALUE	0944
			0B	11	000BB	BRB	6\$	0932
			57	DD	000BD	PUSHL	R7	0952
			58	DD	000BF	PUSHL	R8	
		00000000G	02	FB	000C1	CALLS	#2, CALCULATE_MAX	
	00		01	D0	000C8	MOVL	#1, R0	0954
	50		04	000CB	RET			
			50	D4	000CC	CLRL	R0	0955
			04	000CE	RET			

; Routine Size: 207 bytes, Routine Base: \$CODE\$ + 03F6

```
0956 1 ROUTINE test_char =
0957 1 ++
0958 1
0959 1 This routine is used by TPARSE to process the /RETENTION values.
0960 1
0961 1 NOTE that this routine references the Argument Pointer (AP) directly,
0962 1 due to the fact that TPARSE does not follow the calling standard.
0963 1
0964 1 --
0965 1
0966 1 BEGIN
0967 1
0968 1 BUILTIN AP; ! Declare the argument pointer
0969 1
0970 1 LOCAL
0971 1 ptr,
0972 1 char : BYTE;
0973 1
0974 1 ptr = .ap + $BYTEOFFSET(tpa$b_char); ! Look at the character just read
0975 1 char = CH$RCHAR(.ptr);
0976 1
0977 1 IF .char EQL ','
0978 1 THEN RETURN false ! If a comma, then end of string
0979 1 ELSE RETURN true; ! Else continue processing
0980 1
0981 1 END;
```

```
0000 0000 TEST_CHAR:
50 18 AC 9E 00002 .WORD Save nothing
51 60 90 00006 MOVAB 24(AP), PTR
2C 51 91 00009 MOVB (PTR), CHAR
03 12 0000C CMPB CHAR, #44
50 D4 0000E BNEQ 1$
04 00010 CLRL R0
50 01 D0 00011 1$: RET
04 00014 RET MOVL #1, R0
RET
```

; Routine Size: 21 bytes. Routine Base: \$CODE\$ + 04C5

```
0956
0974
0975
0977
0979
0981
```

```
1010 0982 1 GLOBAL ROUTINE user_act (option_block, callback) =
1011 0983 1 ++
1012 0984 1
1013 0985 1 This is the action routine for the USER NAME qualifier of SET VOLUME. It
1014 0986 1 retrieves the value of the string, checks that it is no longer than
1015 0987 1 twelve characters, and stores a descriptor pointing to it.
1016 0988 1
1017 0989 1 --
1018 0990 2 BEGIN
1019 0991 2
1020 0992 2 OWN user_label : VECTOR[12,BYTE];      ! Place to put process username
1021 0993 2
1022 0994 2 LOCAL status;                          ! Status return
1023 0995 2
1024 0996 2 MAP option_block : REF BBLOCK;        ! Define the cli block
1025 0997 2
1026 0998 2
1027 0999 2 If no username was specified, use the current process username.
1028 1000 2
1029 1001 2 IF .option_block[cli$w_qdvalsiz] EQL 0
1030 1002 2 THEN
1031 1003 2 BEGIN
1032 1004 2 $GETJPI(ITMLST = UPLIT(WORD(4, jpi$username),      ! Get the username
1033 1005 2 user_label,                                          ! Store it here
1034 1006 2 user_value[0],                                    ! Store length here
1035 1007 2 0));
1036 1008 2 user_value[1] = user_label;
1037 1009 2 END
1038 1010 2
1039 1011 2 ELSE
1040 1012 2 BEGIN
1041 1013 2
1042 1014 2
1043 1015 2 Check that the string is no longer than twelve characters.
1044 1016 2
1045 1017 2 IF .option_block[cli$w_qdvalsiz] GTR 12
1046 1018 2 THEN SIGNAL_STOP(set$facility^16 + shr$syntax + sts$k_error,
1047 1019 2 1,
1048 1020 2 option_block[cli$q_qdvaldesc],
1049 1021 2 set$facility^16 + shr$valerr + sts$k_error);
1050 1022 2
1051 1023 2 Record the length and location in USER_VALUE.
1052 1024 2
1053 1025 2 user_value[0] = .option_block[cli$w_qdvalsiz];
1054 1026 2 user_value[1] = .option_block[cli$a_qdvaladr];
1055 1027 2 END;
1056 1028 2
1057 1029 2 RETURN true;
1058 1030 2 END;
```

```
                                .PSECT $PLITS,NOWRT,NOEXE,2
                                0202 0004 00010 P.AAB: .WORD 4, 514
00000000G 00000000' 00014 .ADDRESS USER_LABEL, USER_VALUE
                                00000000 0001C .LONG 0
```


.PSECT SOWNS,NOEXE,2

0002C USER_LABEL:
.BLKB 12

.PSECT \$CODE\$,NOWRT,2

			000C 00000		.ENTRY USER_ACT, Save R2,R3	0982
53	00000000G	00	9E 00002		MOVAB USER_VALUE+4, R3	
52	04	AC	D0 00009		MOVL OPTION_BLOCK, R2	1001
	04	A2	B5 0000D		TSTW 4(R2)	
		1E	12 00010		BNEQ 1\$	
		7E	7C 00012		CLRQ -(SP)	1007
		7E	D4 00014		CLRL -(SP)	
	00000000*	EF	9F 00016		PUSHAB P.AAB	
		7E	7C 0001C		CLRQ -(SP)	
		7E	D4 0001E		CLRL -(SP)	
00000000G	00	07	FB 00020		CALLS #7, SYSSGETJPI	
63	00000000*	EF	9E 00027		MOVAB USER_LABEL, USER_VALUE+4	1008
		27	11 0002E		BRB 3\$	1001
0C	04	A2	B1 00030	1\$:	CMPW 4(R2), #12	1017
		1B	1B 00034		BLEQU 2\$	
	00000000*	8F	DD 00036		PUSHL #<<<SET\$_FACILITY@16>+4584>+2>	1021
	04	A2	9F 0003C		PUSHAB 4(R2)	1020
		01	DD 0003F		PUSHL #1	
	00000000*	8F	DD 00041		PUSHL #<<<SET\$_FACILITY@16>+4344>+2>	
00000000G	00	04	FB 00047		CALLS #4, LIB\$STOP	
FC	A3	04	A2 3C 0004E	2\$:	MOVZWL 4(R2), USER_VALUE	1025
	63	08	A2 D0 00053		MOVL 8(R2), USER_VALUE+4	1026
	50	01	D0 00057	3\$:	MOVL #1, R0	1029
		04	0005A		RET	1030

; Routine Size: 91 bytes, Routine Base: \$CODE\$ + 04DA

```
1060 1031 1 GLOBAL ROUTINE vprot_act (option_block, callback) =
1061 1032 1 ++
1062 1033 1
1063 1034 1 This is the action routine for the PROTECTION qualifier of SET VOLUME.
1064 1035 1 The protection is parsed and stored.
1065 1036 1
1066 1037 1 --
1067 1038 1 BEGIN
1068 1039 1
1069 1040 1 LOCAL
1070 1041 1     status,           ! Status return
1071 1042 1     temp;            ! Temporary place for FPROT_VALUE
1072 1043 1
1073 1044 1 MAP option_block : REF BBLOCK; ! Define CLI block
1074 1045 1
1075 1046 1
1076 1047 1     ! Stuff the TPARSE block with the string
1077 1048 1
1078 1049 1 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
1079 1050 1 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
1080 1051 1
1081 1052 1 temp = .fprot_value;           ! Save contents of FPROT
1082 1053 1 fprot_value = 0;              ! Initialize file protection value
1083 1054 1
1084 1055 1
1085 1056 1     ! Now to parse the protection given. When finished, FPROT_VALUE will
1086 1057 1     ! have the following values:
1087 1058 1
1088 1059 1     FPROT_VALUE[low_word] = protection value
1089 1060 1     FPROT_VALUE[high_word] = group mask i.e. SYSTEM, OWNER, GROUP, WORLD
1090 1061 1
1091 1062 1 IF NOT (status = LIB$TPARSE(tparse_block,
1092 1063 1     pro_state,
1093 1064 1     pro_keys))
1094 1065 1 THEN SIGNAL_STOP(set$_facility^T6 + shr$_syntax + sts$_error,
1095 1066 1     1,
1096 1067 1     option_block[cli$q_qdvaldesc],
1097 1068 1     .status);
1098 1069 1
1099 1070 1 vprot_value = .fprot_value;    ! Store VPROT value
1100 1071 1 fprot_value = .temp;          ! Restore FPROT value
1101 1072 1
1102 1073 1 RETURN true;
1103 1074 1 END;
```

```
04 55 00000000' 003C 00000
54 00000000G EF 9E 00002
52 04 AC D0 00010
65 04 A2 3C 00014
A5 08 A2 D0 00018
53 64 D0 0001D
64 D4 00020
```

```
.ENTRY VPROT_ACT, Save R2,R3,R4,R5
MOVAB TPARSE_BLOCK+8, R5
MOVAB FPROT_VALUE, R4
MOVL OPTION_BLOCK, R2
MOVZWL 4(R2), TPARSE_BLOCK+8
MOVL 8(R2), TPARSE_BLOCK+12
MOVL FPROT_VALUE, TEMP
CLRL FPROT_VALUE
```

```
: 1031
:
:
: 1049
:
: 1050
: 1052
: 1053
```

SETACT
V04-000

C 6
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

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[CLIUTL.SRC]SETACT.B32;1

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00000000G	00	00000000:	EF	9F	00022	PUSHAB	PRO_KEYS	:	1062
	14	00000000:	EF	9F	00028	PUSHAB	PRO_STATE	:	
		F8	A5	9F	0002E	PUSHAB	TPARSE_BLOCK	:	
			03	FB	00031	CALLS	#3, LIB\$TPARSE	:	
			50	E8	00038	BLBS	STATUS, 1\$:	1068
		04	50	DD	0003B	PUSHL	STATUS	:	1067
			A2	9F	0003D	PUSHAB	4(R2)	:	
			01	DD	00040	PUSHL	#1	:	
		00000000*	8F	DD	00042	PUSHL	#<<<SETS FACILITY@16>+4344>+2>	:	
00000000G	00		04	FB	00048	CALLS	#4, LIB\$STOP	:	
00000000G	00		64	DD	0004F	1\$:	MOVL	FPROT_VALUE, VPROT_VALUE	1070
	64		53	DD	00056	MOVL	TEMP, FPROT_VALUE	:	1071
	50		01	DD	00059	MOVL	#1, R0	:	1073
			04	0005C	RET			:	1074

; Routine Size: 93 bytes, Routine Base: \$CODE\$ + 0535

```
1105 1075 GLOBAL ROUTINE vrsn_act (option_block,callback) =
1106 1076 ++
1107 1077
1108 1078 This is the action routine for the VERSION_LIMIT qualifier. The value of
1109 1079 the version limit is collected.
1110 1080
1111 1081 --
1112 1082 BEGIN
1113 1083
1114 1084 LOCAL
1115 1085     status,
1116 1086     desc : BBLOCK[dsc$e_s_bln];
1117 1087
1118 1088 MAP
1119 1089     option_block : REF BBLOCK;           ! Define the CLI options block
1120 1090
1121 1091 vrsn_value = 32767;                     ! Preset to no limit
1122 1092
1123 1093
1124 1094 See if a value was present. If yes, use it. Otherwise, use default
1125 1095
1126 1096 IF .option_block[cli$qdvalsiz] EQL 0
1127 1097 THEN RETURN true;
1128 1098
1129 1099 IF NOT (status = LIB$CVT_DTB(.option_block[cli$qdvalsiz],
1130 1100                                .option_block[cli$qdvaladr],
1131 1101                                vrsn_value))
1132 1102 THEN
1133 1103     BEGIN
1134 1104         SIGNAL_STOP(set$facility^16 + shr$syntax + sts$sk_error,
1135 1105                     1,
1136 1106                     option_block[cli$qdvaldesc],
1137 1107                     .status);
1138 1108     END
1139 1109 ELSE
1140 1110     BEGIN
1141 1111         IF NOT (.vrsn_value GEQ 0 AND .vrsn_value LEQ 65535)
1142 1112         THEN SIGNAL_STOP(set$facility^16 + shr$syntax + sts$sk_error,
1143 1113                     1,
1144 1114                     option_block[cli$qdvaldesc],
1145 1115                     set$facility^16 + shr$valerr + sts$sk_error);
1146 1116     END;
1147 1117
1148 1118 RETURN true;
1149 1119 END;
```

```
53 00000000G 00 00C 00000
5E          08 9E 00002
63 7FFF      8F C2 00009
52          AC D0 00011
          04 A2 B5 00015
          04 3D 13 00018
```

```
.ENTRY VRSN_ACT, Save R2,R3
MOVAB VRSN_VALUE, R3
SUBL2 #8, SP
MOVZWL #32767, VRSN_VALUE
MOVL OPTION_BLOCK, R2
TSTW 4(R2)
BEQL 4$
```

```
1075
1091
1096
```

SETACT
V04-000

E 6
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

VAX-11 BLISS-32 V4.0-742
[CLIUTL.SRC]SETACT.B32;1

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		08	53	DD	0001A	PUSHL	R3		1099
		04	A2	DD	0001C	PUSHL	8(R2)		1100
00000000G	7E		A2	3C	0001F	MOVZWL	4(R2), -(SP)		1099
	00		03	FB	00023	CALLS	#3, LIB\$CVT_DTB		
	04		50	E8	0002A	BLBS	STATUS, 1\$		
			50	DD	0002D	PUSHL	STATUS		1107
			14	11	0002F	BRB	3\$		1106
	50		63	D0	00031	MOVL	VRSN_VALUE, R0		1111
0000FFFF	8F		09	19	00034	BLSS	2\$		
			50	D1	00036	CMPL	R0, #65535		
			18	15	0003D	BLEQ	4\$		
		00000000*	8F	DD	0003F	PUSHL	#<<<SETS_FACILITY@16>+4584>+2>		1115
		04	A2	9F	00045	PUSHAB	4(R2)		1114
			01	DD	00048	PUSHL	#1		
		00000000*	8F	DD	0004A	PUSHL	#<<<SETS_FACILITY@16>+4344>+2>		
00000000G	00		04	FB	00050	CALLS	#4, LIB\$STOP		
	50		01	D0	00057	MOVL	#1, R0		1118
			04	DD	0005A	RET			1119

; Routine Size: 91 bytes. Routine Base: \$CODE\$ + 0592


```
1151 1120 1 GLOBAL ROUTINE window_act (option_block, callback) =
1152 1121 1 ++
1153 1122 1
1154 1123 1 This is the action routine for the /WINDOWS qualifier. It retrieves the
1155 1124 1 value and performs bounds checking on it.
1156 1125 1
1157 1126 1 --
1158 1127 1 BEGIN
1159 1128 1
1160 1129 1 LOCAL
1161 1130 1     status,           ! Status return
1162 1131 1     desc : BBLOCK[dsc$sc_s_bln]; ! General descriptor
1163 1132 1
1164 1133 1 MAP option_block : REF BBLOCK; ! Define the CLI block
1165 1134 1
1166 1135 1 window_value = 7;           ! Set up the default
1167 1136 1
1168 1137 1
1169 1138 1 If a value was specified, use it; otherwise, use the default.
1170 1139 1
1171 1140 1 IF .option_block[cli$w_qdvalsiz] EQL 0
1172 1141 1 THEN RETURN true;
1173 1142 1
1174 1143 1
1175 1144 1 Convert the value
1176 1145 1
1177 1146 1 IF NOT (status = LIB$CVT_DTB(.option_block[cli$w_qdvalsiz],
1178 1147 1     .option_block[cli$a_qdvaladr],
1179 1148 1     window_value))
1180 1149 1 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error, ! Signal a syntax error
1181 1150 1     1,
1182 1151 1     option_block[cli$q_qdvaldesc],
1183 1152 1     .status)
1184 1153 1 ELSE
1185 1154 1 BEGIN
1186 1155 1     IF NOT (.window_value GEQ 7           ! Check that value is in range
1187 1156 1         AND
1188 1157 1         .window_value LEQ 80)
1189 1158 1     THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error, ! If not, exit with an error.
1190 1159 1         1,
1191 1160 1         option_block[cli$q_qdvaldesc],
1192 1161 1         set$_facility^16 + shr$_valerr + sts$k_error);
1193 1162 1     END;
1194 1163 1 RETURN true;
1195 1164 1 END;
```

53	00000000G	00	9E	00002	.ENTRY	WINDOW_ACT, Save R2,R3	1120
5E		08	C2	00009	MOVAB	WINDOW_VALUE, R3	
63		07	D0	0000C	SUBL2	#8, SP	
52	04	AC	D0	0000F	MOVL	#7, WINDOW_VALUE	1135
	04	A2	B5	00013	MOVL	OPTION_BLOCK, R2	1140
		40	13	00016	TSTW	4(R2)	
					BEQL	4\$	

SETACT
V04-000

6 6
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

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			53	DD	00018	PUSHL	R3	:	1146
		08	A2	DD	0001A	PUSHL	8(R2)	:	1147
		04	A2	3C	0001D	MOVZWL	4(R2), -(SP)	:	1146
00000000G	7E		03	FB	00021	CALLS	#3, LIB\$CVT_DTB	:	
	00		50	EB	00028	BLBS	STATUS, 1\$:	
	04		50	DD	0002B	PUSHL	STATUS	:	1152
			17	11	0002D	BRB	3\$:	1151
	50		63	DD	0002F	1\$:	MOVL	WINDOW_VALUE, R0	1155
	07		50	D1	00032	CMPL	R0, #7	:	
			09	19	00035	BLSS	2\$:	
00000050	8F		50	D1	00037	CMPL	R0, #80	:	1157
			18	15	0003E	BLEQ	4\$:	
		00000000*	8F	DD	00040	2\$:	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	1161
		04	A2	9F	00046	3\$:	PUSHAB	4(R2)	1160
			01	DD	00049	PUSHL	#1	:	
		00000000*	8F	DD	0004B	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	:	
00000000G	00		04	FB	00051	CALLS	#4, LIB\$STOP	:	
	50		01	DD	00058	4\$:	MOVL	#1, R0	1163
			04	DD	0005B	RET		:	1164

; Routine Size: 92 bytes, Routine Base: \$CODE\$ + 05ED

SETACT
V04-000

H 6
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

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[CLIUTL.SRC]SETACT.B32;1

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: 1197 1165 1 END
: 1198 1166 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	56	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
LIB\$KEYOS	40	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
LIB\$STATES	642	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
LIB\$KEY1\$	104	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
\$CODE\$	1609	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
ABS	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)
\$PLITS	32	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	30	0	1000	00:01.8
\$255\$DUA28:[SYSLIB]CLIMAC.L32;1	14	0	0	9	00:00.1
\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	29	69	14	00:00.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETACT/OBJ=OBJ\$:SETACT MSRC\$:SETACT/UPDATE=(ENHS:SETACT)

: Size: 1609 code + 874 data bytes
: Run Time: 01:06.7
: Elapsed Time: 03:44.0
: Lines/CPU Min: 1049
: Lexemes/CPU-Min: 69494
: Memory Used: 274 pages
: Compilation Complete

0052 AH-BT13A-SE
VAX/VMS V4.0

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